



Catalog 1991–1992



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The American University Catalog

1991–1992
Edition

effective Fall 1991

Washington, D.C.

Correspondence Directory

Undergraduate Admission

Office of Admissions and Financial Aid
Hamilton Building
(202) 885-6000 fax (202) 885-6014

Graduate Admission

Office of Graduate Affairs and Admissions
Anderson Hall lower level
(202) 885-1098

Program Information

Appropriate college, school, or department

On-Campus Housing

Office of Residential Life, Mary Graydon Center 200,
(202) 885-3370
or
Office of Housing Management, McDowell Hall 4,
(202) 885-2599

Scholarships and Loans

Office of Admissions and Financial Aid,
Hamilton Building
(202) 885-6100

Part-Time Employment

Director for Placement, Career Center
Butler Pavilion 5th floor
(202) 885-1825

Financial Transactions

Office of Student Accounts
Asbury Building 300
(202) 885-3541

Records and Transcripts

Office of the Registrar
Asbury Building 2nd floor
(202) 885-2232, fax (202) 885-1052

Student Activities

Office of Student Activities
Mary Graydon Center 220
(202) 885-3390

International Student Information

Office of International-Intercultural Student Services,
Butler Pavilion 408
(202) 885-3350, fax (202) 885-3354

University News and Public Information

Office of University Relations
Constitution Building, Tenley Campus
(202) 885-5940

Alumni Relations

Office of Alumni Relations
Constitution Building, Tenley Campus
(202) 885-5960

For additional information, call, write, or visit:

Office of Admissions and Financial Aid
The American University
4400 Massachusetts Avenue, N.W.
Washington, DC 20016
(202) 885-6000

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The Office of the University Registrar
Donald W. Bunis, University Registrar
Cynthia Lindstrom, Editor
Mary-Ellen Jones, Senior Publications Assistant
Kathleen Summers, Publications Assistant

In cooperation with
The Office of University Relations
Karen Lebovich, Director,
University Publications and Printing

Limitations on Catalog Provisions

The educational process necessitates change. This publication must be considered informational and not binding on the university.

Each step of the educational process, from admission through graduation, requires appropriate approval by university officials. The university must, therefore, reserve the right to change admission requirements or to refuse to grant credit or a degree if a student does not satisfy the university, in its sole judgment, that he or she has satisfactorily met its requirements.

Equal Opportunity

The American University provides equal opportunity for all qualified persons in its educational programs and activities. The university does not discriminate on the basis of race, color, religion, national origin, sex, age, marital status, personal appearance, sexual orientation, family responsibilities, political affiliation, source of income, or physical handicap. The policy of equal opportunity applies to every aspect of the operations and activities of the university generally, and includes admissions and employment.

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Introduction

The programs in this catalog reflect The American University's academic tradition and its development as a comprehensive university in the nation's capital.

Chartered in 1891 and incorporated by Act of Congress in 1893, the university was founded as a Methodist-related graduate school of history and public affairs. Today American University offers a wide range of graduate and undergraduate degree programs, and nondegree study as well, through its five major divisions: the College of Arts and Sciences, which comprises more than twenty teaching units including the School of Communication and the School of Education; the School of Public Affairs; the School of International Service; Kogod College of Business Administration; and Washington College of Law.

Faculty

The distinguished faculty of The American University includes renowned experts and scholars: artists, performers, novelists, scientists, business leaders, and poets of national and international reputation.

To its full-time faculty of 472, the university adds 734 adjunct faculty members drawn from Washington's professional community. A course in government at American University might be taught by a White House aide or past presidential candidate, a communication course by a Pulitzer Prize-winning journalist, or a history course by a curator of the Smithsonian. Even heads of state have taught at American University.

Resources of Washington, D.C.

The resources of a capital city are unlike any other in the world. Next to government, education is the largest industry in the District of Columbia. Washington has become an important business and financial center, with more associations and trade organizations than New York City. Some 140 foreign embassies and chanceries and the headquarters of many international organizations are located in the city.

But most important, Washington is a city of learning resources in every discipline, from the arts to the sciences to public affairs. The Smithsonian Institution, the John F. Kennedy Center for the Performing Arts, the National Institutes of Health, the National Library of Medicine, the Library of Congress, the World Bank, the National Archives, the Brookings Institution, and the Chamber of Commerce of the U.S.A. are all located in Washington, D.C.

The libraries, museums, and art galleries of Washington contain unsurpassed collections. These resources become sites of research, field trips, internships, cooperative education placements, and part-time jobs. Because of these resources, American University students can put their education to work as they could nowhere else in the country.

The Campus

Massachusetts Avenue runs from the bustle of downtown Washington, through Embassy Row, by the Washington Cathedral, through wooded Glover-Archbold Park, to Ward Circle. Here on the hill where Massachusetts and Nebraska Avenues meet, sits the seventy-seven-acre main campus of The American University. In a beautiful residential area, the campus is a tranquil setting for study.

As a part of, yet apart from, the city, The American University is near shopping centers and is only a short drive or bus ride to important points around Washington. A subway station is located not far from campus.

The thirty-seven buildings on the campus include the university library and law library, residence halls, an interdenominational religious center, a sports and convocation center, and a campus center.

The satellite Tenley Campus, located a mile from the university's main site, is the location of the Washington Semester program.

University Library

The Jack I. and Dorothy G. Bender Library contains 550,000 volumes, 600,000 microforms, 1,400 film and video titles, and over 2800 periodical titles. The reference collection includes atlases, encyclopedias, directories,

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guides, and bibliographies and periodical indexes in both print and CD-ROM formats. Reference librarians assist in helping students find information, conduct online bibliographic searches, and offer instruction for library use to students.

Bender Library offers quiet study spaces as well as group study rooms, a typing area and study space with a separate late-night entrance that is open twenty-four hours a day.

Special collections include The American University Archives, rare books, and manuscripts. Examples are the Artemus Martin Collection of materials on mathematics and the Spinks Collection of Japanese materials.

All students are encouraged to inquire at Bender Library about the availability of research materials before going to other libraries.

The American University is a member of the Consortium of Universities of the Washington Metropolitan Area. The American University students may use material in all libraries of member institutions, and currently enrolled graduate students may borrow material from consortium member libraries.

The library is a member of the OCLC library network, which provides online access to bibliographic information on over twenty million items in 10,000 libraries.

Science Laboratories

Extensive laboratory facilities in the Beechly Chemistry Building include modern teaching and research laboratories and such specialized facilities as the newly constructed animal facility, a dark room, a controlled temperature room, and instrument rooms. Spectrophotometers, including nuclear magnetic resonance, mass, ultraviolet, infrared, visible, emission, fluorescence, and atomic absorption, are available.

Research facilities of the Department of Physics, housed in the McKinley Building, include general and advanced laboratories, a minicomputer room, electronics and audio technology equipment, a recording studio, an electronic-music studio, a machine shop, and Mossbauer, critical phenomena, kinetic molecular, and laser laboratories. Nuclear research is carried out under a cooperative arrangement with the Stanford Linear Accelerator Center.

The undergraduate teaching laboratories of the Department of Biology were recently remodeled with new equipment and modern instrumentation. Laboratories used for upper-level courses, graduate courses, and research are well equipped and are continuously upgraded. Students have the opportunity to gain experience with a wide variety of techniques including scientific methodology and experimental design, nucleic-acid isolation, protein and nucleic-acid design, electrophoresis, bacteria and primary cell structure, electrophysiology, immunohistochemistry, fluorescence microscopy, histology, aseptic technique, and quantitative genetic analysis. The facilities in the Department of Biology and cooperative agreements with various government laboratories make possible opportunities for research in environmental, ecological, and biomedical sciences.

Computing Center

The center serves the research and instructional needs of both faculty and students for micro and mainframe com-

puting resources. Services are available twenty-four hours a day. There are no charges to registered students for academic use of the resources. The mainframe computer, an IBM 3090, is accessible through telephone modem or in on-campus laboratories. Microcomputers are available in eleven computer laboratories across campus, all supported with technical staff to assist in using a broad spectrum of standard applications. Throughout the year the center and labs offer noncredit classes on using the university's hardware and software.

Language Laboratory

The language laboratory in the Asbury Building can serve up to ninety students simultaneously using audio, video, still-film, and computer-assisted instruction. This facility of the Department of Language and Foreign Studies is open to the entire university community for instruction and research involving both languages and educational media.

Media Center

The Media Center, located on the third floor of the Mary Graydon Center, includes the 100-seat Mark Wechsler Theatre for video and film projection and analysis.

Music Facilities

The Kreeger Building, housing the Department of Performing Arts, has twenty-five practice rooms, twenty of them with pianos; a chamber-music recital hall seating 130; and one large rehearsal space. Housed within the building is the Record-Score Collection administered by the university library. It has facilities for TV tape viewing and record and tape listening. Available through the university library and music library are over 10,000 volumes of music scores and books and over 10,000 disc recordings. Housed elsewhere in the building is a large collection of choral, orchestral, jazz, and symphonic wind scores.

Art Facilities

The Art Department is housed mainly in the Watkins Building with additional classrooms and studio space in the McKinley Building. There are classrooms with special equipment to handle drawing, painting, printmaking, etching, sculpture, design, and ceramics classes as well as art history classes. The department also maintains the Watkins Gallery, a long-established gallery with changing exhibitions, including the Watkins Collection and works by faculty, students, and other artists.

WAMU-FM Radio

WAMU 88.5 FM is a twenty-four hour, 50,000 watt public radio station, licensed to The American University since 1961. It ranks among the top ten public radio stations in the country. WAMU serves more than 300,000 listeners in Virginia, Maryland, and the District of Columbia with news, talk programming, and traditional American music. As a public not-for-profit radio station WAMU's support comes from all sectors of the community—over 20,000 individuals, listeners, businesses, The American University, and the Corporation for Public Broadcasting. Though WAMU-FM is professionally staffed, work-study students

aid the business director and contribute to research and development efforts.

Recreational Facilities

The university maintains on-campus facilities for a variety of recreational activities. The Adnan Khashoggi Center has a natatorium with two pools, two weight rooms, a wrestling and exercise room, two racquetball courts, two squash courts, four basketball courts, two volleyball courts, and a jogging track.

Outdoor facilities include tennis courts and an all-purpose intramural and recreational field.

National Center for Health Fitness

The National Center for Health Fitness, located in Nebraska Hall, provides physiological and health counseling for members of the university community.

The Consortium of Universities

The Consortium of Universities of the Washington Metropolitan Area combines the resources of ten area universities and two colleges. American University students may take courses for residence credit at any consortium institution and may borrow from any consortium library. In addition the consortium sponsors student loan programs, the Consortium Research Fellows program, the Center for Advanced Studies of the Americas (CASA), DC Law Students in Court (DCLC), and the National Institute for Citizen Education in the Law (NICEL).

University Profile

Historical Origins

Chartered in 1891; incorporated by Act of Congress in 1893 as a Methodist Church-related institution. First building completed in 1898; first graduating class, 1916

Character

Independent, coeducational

Location

Residential area of Northwest Washington, D.C.

Academic Programs

65 Bachelor's programs

78 Master's programs

17 Doctoral programs

J.D. and LL.M.

Also, an associate degree program and undergraduate and graduate certificate programs

Academic Divisions

College of Arts and Sciences: twenty-two teaching units including the schools of communication and education

Kogod College of Business Administration

School of International Service

School of Public Affairs: departments of government; justice, law and society; and public administration; and the Center for Public Financial Management

Washington College of Law

Special Programs

Cooperative education and internships on undergraduate and graduate levels

Study abroad programs: undergraduate opportunities for short-term or extended study in Latin America, Asia, Western and Eastern Europe in language, politics, justice and economics

Washington Semester programs: peace and conflict resolution, American politics, art and architecture, foreign policy, economic policy, justice, and journalism

Consortium of Universities of the Washington Metropolitan Area: Courses not offered by The American University may be taken for credit, by special arrangement, at any one of twelve other Washington, D.C. area colleges and universities

Office of Continuing Studies: graduate, undergraduate, and noncredit certificates and seminars

Calendar

Two semesters, summer sessions

Student/Faculty ratio (1989-90)

14:1

Number of Faculty

472 full-time faculty, 734 adjunct faculty (most of whom are professionals working in their subject fields)

Freshman Profile

The fall 1990 entering freshmen class had an average combined SAT score of 1135; 68% of these 1,137 new freshmen had high school grade point averages above 3.00.

Financial Aid

Approximately 60% of the student body receives some form of financial aid.

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Facilities/Physical Plant

The 77-acre main campus and the 8-acre Tenley satellite campus are within one mile of each other. Facilities include administrative/academic buildings, housing for 3,600, an interdenominational religious center, specialized natural science facilities, a computing center open 24 hours a day, 11 other computer laboratories around campus, radio and TV studios, recital halls, and a small theatre.

The university's multi-purpose Sports and Convocation Center has several components; The Abbey Joel Butler Pavilion, housing the campus store, other shops and services, and the Offices of The Division of Student Life and the Career Center, a parking garage, the Jack I. Bender Arena, and the John M. Reeves Aquatic Complex. The center accommodates health/fitness classes, recreation and intramurals, commencement ceremonies, sports competitions, conferences, major speeches, alumni gatherings, and special events.

Student Services

Career Center, Psychological and Learning Services, Child Development Center, Campus Ministries, Office of International-Intercultural Affairs, Office of Minority Affairs, and Student Health Center

Library

550,000 volumes; 600,000 microforms; 2,800 periodicals; 1,400 films and videos; online databases through BRS and Dialog

Students also have access to holdings at many libraries in Washington D.C.; graduate degree students may have borrowing privileges at other college and university libraries in the Washington consortium

Law Library

138,748 volumes; 597,910 microforms; Lexis, Westlaw, BRS, Dialog, ELSS, Autocite, Vutext data bases

Extracurricular activities

Wide range of clubs and organizations, fraternities and sororities, and varsity, recreational, and intramural sports

Residence Halls

Seven residence halls on the main campus accommodate 3,000 students each year. Three residence halls on the Tenley Campus provide housing for 450 Washington Semester students. On-campus living is optional. There are a variety of housing options available on campus; including graduate student, upperclass, and intercultural residence halls. There are also several special interest floors available in the residence halls.

An apartment building housing 125 graduate students is located within a mile of the campus.

Admission

Freshman: based on secondary school record, SAT or ACT scores, and relevant achievement tests for some fields, and recommendations; early-decision admission offered

Transfer: secondary and/or college records, SAT scores

Graduate: bachelor's degree from accredited institution, undergraduate and graduate records, grade point average (GPA), and other standards where applicable

Accreditation

The American University is accredited by the Middle States Association of Colleges and Secondary Schools. It is recognized by the National University Extension Association, the Adult Education Association of the U.S.A., and the University Senate of the United Methodist Church.

A number of programs are also individually accredited by or are members of, professional organizations, including:

- Department of Chemistry: American Chemical Society
- Department of Computer Science and Information Systems: computer science program; accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board
- School of Education: National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification (both elementary and secondary)
- Kogod College of Business Administration: accredited by the American Assembly of Collegiate Schools of Business
- The School of International Service: member of the Association of Professional Schools of International Affairs
- Department of Performing Arts: division of music; member of the National Association of Schools of Music
- Department of Psychology: doctoral training program in clinical psychology; American Psychological Association
- School of Public Affairs: institutional member of the National Association of Schools of Public Affairs and Administration; member of the Academy of Criminal Justice Sciences
- Washington College of Law: American Bar Association and Association of American Law Schools

1990-1991 Academic Year Enrollment

Full-time undergraduates	5,656
Part-time undergraduates	509
Full-time and part-time graduate students (including Washington College of Law)	4,210
Nondegree students	1,389
Total	11,764

Degrees Conferred 1989-1990

<i>College/School</i>	<i>Associate</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Ph.D.</i>	<i>Ed.D.</i>	<i>J.D.</i>	<i>Total</i>
College of Arts and Sciences	8	575	340	38	1	-	962
Kogod College of Business Administration	-	282	220	-	-	-	502
School of International Service,	-	245	149	12	-	-	400
School of Public Affairs	-	246	161	5	-	-	412
Washington College of Law	-	-	70	-	-	330	400
Degrees jointly conferred by the College of Arts and Sciences and Kogod College of Business Administration		-	21	-	-	-	21
<i>University Total</i>	8	1,348		55	1	330	2,703



American University President Joseph Duffey at Freshman Day festivities

Fields of Study

Undergraduate

Accounting (B.S.B.A.)
 American Studies (B.A.)
 Anthropology (B.A.)
 Art History (B.A.)
 Audio Technology (B.S.)
 Biology (B.S.)
 Business Management Information Systems (B.S.B.A.)
 Chemistry (B.S.)
 Communication (B.A.)
 Communication, Legal Institutions, Economics, and Government (B.A.)
 Computer Information Systems (B.S.)
 Computer Science (B.S.)
 Design (B.A.)
 Distributed Science (B.S.)
 Economic Theory (B.A.)
 Economics (B.A.)
 Education, Elementary (B.A.)
 Finance (B.S.B.A.)
 Fine Arts (B.F.A.)
 Foreign Language and Communication Media (B.A.)
 French Studies (B.A.)
 French/West European Area Studies (B.A.)
 General Studies (A.A., B.G.S.)
 German Studies (B.A.)
 German/West European Area Studies (B.A.)
 History (B.A.)
 Human Resource Management (B.S.B.A.)
 Interdisciplinary Studies (B.A., B.S.)
 International Business (B.S.B.A.)
 International Studies (B.A.)
 Jewish Studies (B.A.)
 Justice (B.A.)
 Law and Society (B.A.)
 Literature (B.A.)
 Literature: Cinema Studies (B.A.)
 Marketing (B.S.B.A.)
 Mathematics (B.S.)
 Mathematics, Applied (B.S.)
 Music (B.A., B.Mus.)
 Music and Technology (B.A.)
 Performing Arts: Theatre (B.A.)
 Philosophy (B.A.)
 Physics (B.S.)
 Political Science (B.A.)
 Psychology (B.A.)
 Real Estate and Urban Development (B.S.B.A.)
 Religion (B.A.)
 Russian Studies (B.A.)
 Russian/USSR Area Studies (B.A.)
 Sociology (B.A.)
 Spanish/Latin American Area Studies (B.A.)
 Spanish Studies (B.A.)
 Statistics (B.S.)
 Studio Art (B.A.)

Graduate

Accounting (M.B.A., M.S.)
 Anthropology (M.A., Ph.D.)
 Anthropology, Applied (M.A.)
 Art History (M.A.)
 Biology (M.A., M.S.)
 Business Management Information Systems (M.B.A.)
 Chemistry (M.S., Ph.D.)
 Communication: Journalism and Public Affairs (M.A.)
 Communication: Public Communication (M.A.)
 Computer Science (M.S.)
 Counseling and Development (Ed.D., Ph.D.)
 Creative Writing (M.F.A.)
 Development Banking (M.A.)
 Development Management (M.S.)
 Economics (M.A., Ph.D.)
 Economics, Applied (M.A.)
 Education: Educational Administration (M.A.)
 Education: International Education (M.A.)
 Education: Special Education: Emotional Disturbance (M.A.)
 Education: Special Education: Learning Disabilities (M.A.)
 Education: Specialized Studies (M.A.)
 Education: Student Development in Higher Education (M.A.)
 Educational Administration (Ed.D., Ph.D.)
 Film and Video (M.A.)
 Finance (M.B.A.)
 French Studies (M.A.)
 Health/Fitness Management (M.S.)
 History (M.A., Ph.D.)
 History of Religions: Hindu Tradition (M.A.)
 Human Resource Development (M.S.H.R.)
 Human Resource Management (M.B.A.)
 Information Systems (M.S.)
 Interdisciplinary Studies (M.A., M.S.)
 International Affairs: Comparative and Regional Studies (M.A.)
 International Affairs: International Politics (M.A.)
 International Affairs: U.S. Foreign Policy (M.A.)
 International Business (M.B.A.)
 International Communication (M.A.)
 International Development (M.A.)
 International Legal Studies (LL.M.)
 International Relations (Ph.D.)
 Justice (M.S.)
 Law (J.D.)
 Literature (M.A.)
 Marketing (M.B.A.)
 Mathematics (M.A.)
 Mathematics, Applied (M.A.)
 Mathematics Education (Ph.D.)
 Music (M.A.)
 Painting (M.F.A.)
 Performing Arts: Arts Management (M.A.)
 Performing Arts: Dance (M.A.)
 Philosophy (M.A.)
 Philosophy and Social Policy (M.A.)
 Physics (M.S., Ph.D.)
 Political Science (M.A., Ph.D.)
 Printmaking (M.F.A.)

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Procurement Management (M.S.)
Psychology (M.A., Ph.D.)
Psychology, General (M.A.)
Public Administration (M.P.A., Ph.D.)
Public Financial Management (M.P.F.M.)
Real Estate and Urban Development (M.B.A.)
Russian Studies (M.A.)
Sculpture (M.F.A.)
Secondary Education (M.A.T.)

Sociology (M.A., Ph.D.)
Sociology, Applied (M.A.)
Sociology: Justice (Ph.D.)
Spanish Studies (M.A.)
Statistical Computing (M.S.)
Statistics (M.S., Ph.D.)
Taxation (M.S.)
Toxicology (M.S.)



Academic Calendar 1991-1992

Fall 1991

March 25-August 2	Advance registration (with billing) for Fall 1991
August 5-30	Direct registration (with payment) for Fall 1991
September 2	Labor Day holiday; university offices closed
September 3	Fall 1991 semester begins
November 4-December 6	Advance registration (with billing) for Spring 1992
November 28-December 1	Thanksgiving holiday; no classes; university offices closed
December 9	Direct registration (with payment) for Spring 1992 begins
December 11	Classes end
December 12-13	Study days
December 14-20	Final examinations

Spring 1992

January 10	Direct registration (with payment) for Spring 1992 ends
January 13	Spring 1992 semester begins
January 20	Martin Luther King Jr. Day; no classes; university offices closed
January 26	Winter Commencement

March 8-15	Spring break
April 27	Classes end
April 28-29	Study days
April 30-May 6	Final examinations
May 9	Honors Convocation
May 10	Spring Commencement

Summer 1992

May 11	Summer sessions begin; three-week, first six- and seven-week sessions and ten-week session begins
May 25	Memorial Day holiday; no classes, university offices closed
May 29	Three-week session ends
June 19	First six-week session ends
June 26	First seven-week session ends
June 29	Second six- and seven-week sessions begin
July 3	Independence Day holiday observed; no classes, university offices closed
July 17	Ten-week session ends
August 7	Second six-week session ends
August 14	All remaining sessions end



Undergraduate Study

Admission

Application for Admission

Application for admission to undergraduate degree programs may be made for any fall, spring, or summer term. The applicant is required to submit the application form and a nonrefundable application fee of \$35. Forms may be obtained by writing or telephoning the Office of Admissions and Financial Aid.

Applications and all supporting documents must be on file in the Office of Admissions and Financial Aid by the following dates:

Freshman

Fall	
Early Decision	November 15
General Admission	February 1
Spring	December 1
Summer	April 15

Transfer

Fall	August 1
(February 1 to be considered for financial aid)	
Spring	December 1
Summer	April 15

The applicant is responsible for requesting that official transcripts and test scores be sent directly from the issuing institutions to The American University, Office of Admissions and Financial Aid.

High school seniors usually apply in the fall of their senior year. The application deadline has been established to ensure that all applications received by that date will also be considered for financial aid and housing. Applications received after the deadline will be considered for the intended program of study as long as class space remains and if it is possible to receive and process the necessary documents in time for registration. Also, persons applying

after February 1 should understand that financial aid and housing may not be available to them for the fall term.

Transfer applicants must request each collegiate institution previously attended to send directly to the Office of Admissions and Financial Aid an official transcript of all work done. Attendance at all institutions must be reported *whether or not credit was earned* and whether or not transfer credit is desired. Failure to report all previous academic work will be considered sufficient cause for rejection of an application or for dismissal from the university.

Early Admission

The American University offers the opportunity for admission a year earlier than normal to freshman applicants whose ability, academic achievement, and general maturity indicate that they are ready to begin collegiate work.

The Office of Admissions and Financial Aid will send information to secondary-school principals, counselors, or students who inquire about such admission. Applicants are considered on their own merit. However, major factors important to evaluation are:

1. The secondary school record, with special reference to grades achieved and the pattern of courses taken;
2. Performance on the College Entrance Examination Board (CEEB) Tests or the American College Tests (ACT);
3. The recommendations of the secondary school principal and counselor;
4. A letter from the applicant stating the reasons for seeking early admission; and,
5. Possibly, an interview with a screening committee.

Early Decision

Freshman applicants whose first choice is The American University are encouraged to apply as early decision candidates. Students admitted under the early decision plan learn of their admission by December 15 and receive first consideration for housing, financial aid, and course selection. The university, in turn, is assured that these students will enroll if admitted.

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The deadline for applying for early decision is November 15, at which time all documents, including the \$35 application fee, must be on file with the Office of Admissions and Financial Aid. Early decision applicants may initiate applications to other schools before notification on December 15, but if they are admitted to The American University as early decision candidates, they must submit a tuition deposit and withdraw all applications to other colleges and universities.

Early decision applicants are evaluated by the same criteria as all other freshman applicants. They may be admitted to the university in December; denied admission, or have their application deferred until the general admission reply date of April 15. Students deferred until April are released from the commitment to attend if admitted.

Campus Visits and Interviews

Prospective students are invited to visit the university but are not required to do so. Students are asked to make an appointment with the Office of Admissions and Financial Aid three weeks in advance if by mail, two weeks if by telephone.

Prospective freshmen participate in small-group conferences conducted by an admission counselor, who will review admission policy and procedure and answer questions about the university. Applicants should be prepared to complete a brief description of their academic qualifications, i.e., academic average, standardized-test scores, and rank in class.

Campus tours are usually available for visitors before or after the conference. However, during holiday periods when the university is not in session, it may not be possible to gain access to classroom buildings and dormitories, and tour guides may not be available. At those times the university offers visitors a campus map so that they may guide themselves.

Students attending another college or university who are interested in transferring to The American University may make appointments in advance for individual conferences with an admission counselor. A transfer student should either have an official transcript of previous work forwarded to the Office of Admissions and Financial Aid before the visit or bring a personal copy for use in the conference.

The Office of Admissions and Financial Aid is usually able to arrange classroom visits for prospective students when the request has been made well in advance. However, a visitor may attend classes with a friend enrolled at the university if permission of the professor has been granted in advance. Saturday class offerings are very limited.

The Office of Admissions and Financial Aid will make every effort to arrange overnight accommodations for prospective students in university residence halls. Visitors requesting overnight housing are asked to telephone the admissions office two weeks in advance. The admissions office can also provide a list of motels and hotels convenient to the campus.

Notice of Admission

General and early admission applicants whose applications and supporting documents have been received by the Office of Admissions and Financial Aid by February 1 are notified of the decision on their applications by April 15.

Early decision applicants are notified of the decision by December 15; at that time early decision applicants may be admitted, denied admission, or deferred until the general admission date of April 15.

Transfer applicants are notified of decisions as they are made.

Full-time undergraduates entering in the fall semester are required to pay a nonrefundable tuition deposit to reserve a place in the class.

Complete detailed instructions for replying to the admission offer are furnished with the notice of acceptance.

Learning-Disabled Program

The American University offers a comprehensive support program for learning-disabled students. Applicants to this program are evaluated according to their individual backgrounds and needs. Often the Office of Admissions and Financial Aid will request additional information from learning-disabled applicants. For this reason, learning-disabled students are encouraged to submit their applications with all supporting documents as early as possible. Application materials should be mailed to: Special Admissions Committee for Learning-Disabled Students, Office of Admissions and Financial Aid, The American University, 4400 Massachusetts Avenue, N.W., Washington, DC 20016-8001.

Further information about The American University's support program for learning-disabled students can be obtained from the Center for Psychological and Learning Services, Mary Graydon Center 201, (202) 885-3360.

Freshman Admission Requirements

A graduate of an approved secondary school who has completed fifteen academic units—including at least four units in English, three units in college preparatory mathematics, including the equivalent of two units in algebra, and two units of foreign language—will be considered for freshman standing effective fall 1992.

The following standardized tests should be taken as early as possible in the senior year; applicants should request that official score reports be sent directly to the Office of Admissions and Financial Aid.

1. Scholastic Aptitude Test (SAT) (required)
2. English Composition Achievement Test (recommended for placement)
3. Foreign Language Achievement Test: Applicants who plan to continue the study of a foreign language that was begun in secondary school may wish to submit scores on the appropriate test to be used in placing the student at the proper level of work. The test should be taken as early as January if possible, but no later than May for fall admission.
4. Mathematics Achievement Test (Level I or Level II): It is recommended that the test be taken by any freshman applicant whose intended major program of study will require the completion of course work in mathematics or statistics. A score of 650 in Math II will meet the university's College Mathematics Requirement.

Additional achievement test scores may be submitted (no later than May for fall admission) at the discretion of the applicant.

The American College Test (ACT) scores are an acceptable alternative if the student does not plan to take the SAT.

The American University may require applicants, regardless of citizenship, to take an English language proficiency examination if they are most fluent in a language other than English. The Office of Admissions and Financial Aid will notify applicants who need to take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on the campus of The American University).

Equivalency Diploma

Holders of equivalency diplomas issued by state departments of education are eligible for consideration as freshmen but are subject to an entrance examination such as the SAT, ACT, or the School and College Ability Test (SCAT) at the request of the Office of Admissions and Financial Aid.

Veterans or current members of the armed forces who have taken the General Education Development Test (GED), the Comprehensive College Test, or the General Examinations of the College Level Examination Program (CLEP) should apply to their state departments of education for equivalency diplomas. Official certification of the diploma should be sent by the state department of education directly to the Office of Admissions and Financial Aid.

Advanced Placement

Freshman applicants may earn advanced-standing credit which may be used toward degree requirements.

1. The College Entrance Examination Board's Advanced Placement Program: In some secondary schools, enriched courses are offered under this program. On the basis of scores achieved in the special examinations given, the applicant may be granted actual college credit or advanced placement in courses. A maximum of thirty credit hours earned on this basis may be applied towards a bachelor's degree.
2. The College Level Examination Program (CLEP): Credit may be earned for superior performance in the following subject-matter examinations: American Government, American History I or II, American Literature, Analysis and Interpretation of Literature, Biology, Calculus with Elementary Functions, College Composition, College French levels one and two, College German levels one and two, College Spanish levels one and two, Computers and Data Processing, Educational Psychology, English Literature, General Chemistry, General Psychology, Human Growth and Development, Introduction to Management, Introductory Accounting, Introductory Marketing, Introductory Macroeconomics, Introductory Microeconomics, Introductory Sociology, Tests and Measurements, and Western Civilization I and II. A score of 75% in CLEP Calculus will meet the university's College Mathematics Requirement.
3. Students presenting a 4 or 5 on the Advanced Placement Biology, Chemistry, or Physics examinations may earn credit for the General

Education Requirement in Curricular Area 5: The Natural Sciences. No other Advanced Placement credit may be used to meet the thirty credit hours of General Education Requirements in the five curricular areas. No CLEP credit may be used to meet the thirty credit hours of General Education Requirements in the five curricular areas once the student has matriculated at The American University.

From time to time, additional subject-matter examinations are added to those listed above. For complete details on the CLEP at The American University, write the Office of Admissions and Financial Aid.

Credit may be earned in a combination of the above programs, but duplicate credit will not be given.

School of International Service

In addition to standards and procedures pertaining to freshman admission at The American University, candidates for admission to the School of International Service must present evidence of outstanding personal and academic qualifications. Eligibility for freshman consideration normally requires a minimum 3.00 grade-point average in secondary school, computed on academic courses only. Other considerations are leadership qualities, character, and personal interest.

Transfer Admission Requirements

To be considered for transfer admission, applicants normally should have maintained at least a 2.00 grade point average (on a 4.00 scale) or the equivalent at an AG-rated regionally accredited institution or a Recognized Candidate for Accreditation or at least a 3.00 average from an AP-rated regionally accredited institution. Transfer applicants should be in good academic and social standing at the school previously attended.

Transfer applicants with fewer than 24 hours of credit completed at the time of application should also submit the secondary school record and standardized-test scores.

Applicants to the School of International Service should have maintained a minimum 3.00 grade point average (on a 4.00 scale). Applicants to the School of Communication should have a minimum 2.50 grade point average.

Applicants to the School of Education should present a minimum 2.70 grade-point average.

Transfer applicants who are also applying for financial aid should submit their admissions applications and supporting documents by February 1 for fall entrance. All financial aid documents should be on file with the Office of Admissions and Financial Aid by March 1.

The American University may require transfer applicants, regardless of citizenship, to take an English language proficiency examination if they are most fluent in a language other than English. The applicant will be notified by the Office of Admissions and Financial Aid if he or she needs to take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on campus at The American University).

Transfer of Credit

The Office of Admissions and Financial Aid evaluates official documents showing previous college-level work completed and is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

Transfer students may normally expect to receive credit for courses taken at collegiate institutions that were, at the time the courses were taken, regionally accredited or Recognized Candidates for Accreditation. These courses must have been completed with grades of C or better from an AG-rated institution or B or better from an AP-rated institution and must be appropriate for academic credit at The American University towards an undergraduate-degree program. A maximum of 75 hours of credit, or the equivalent, will be accepted on transfer from four-year collegiate institutions as designated above. A maximum of 60 credit hours will be accepted from a two-year collegiate institution as designated above.

A maximum of thirty credit hours, or the equivalent, may be accepted on transfer for a combination of relevant work completed satisfactorily in Armed Services School courses or any Military Occupational Skills (MOS) completed with a grade of 70 or better, both as recommended for baccalaureate credit by the American Council on Education or for associate or baccalaureate credit as recommended by the Defense Activity for Non-Traditional Educational Support (formerly United States Armed Forces Institute).

A maximum of thirty credit hours may be granted for a combination of relevant work completed in (a) college-level nondegree, extension, or correspondence courses with grades of C or better offered through an AG-rated institution, or from an AP-rated institution with a grade of B or better, provided the course is recognized by that institution for credit towards a degree and is appropriate for academic credit as understood by the Office of Admissions after consultation with the appropriate academic unit where necessary; (b) noncollegiate (but not Armed Forces) organizations that are recommended at the baccalaureate level by the American Council on Education.

Transfer students may be awarded credit for satisfactory scores in subject-matter tests of the College Level Examination Program. (For more information, see "Freshman Admission Requirements" above.) A maximum of 75 credit hours may be transferred toward a bachelor's degree.

Grades and quality points earned in courses accepted for transfer will not be included in the grade-point average to be maintained at The American University, but the credits will count toward the total number required for graduation.

Admission from Nondegree Status

Students wishing to transfer from nondegree status at The American University to undergraduate degree status must submit a formal application for admission to an un-

dergraduate program through the Office of Admissions and Financial Aid. If a student is accepted into an undergraduate degree program, a maximum thirty credit hours of credit may be transferred from nondegree status to the degree program. If the student is denied admission to an undergraduate program, the student may not register at The American University for further courses.

Admission for Part-time Study

A student enrolled in fewer than twelve credit hours is considered a part-time student.

Applicants considering part-time study in a degree program are cautioned that they may be unable to complete the necessary course work for degrees by attending evening classes only. Before applying they should consult with the department chair in disciplines of their proposed majors to ascertain whether the required courses will be available to them.

Part-time degree applicants are required to meet the same standards for admission as full-time applicants, and should follow the instructions under either "Freshman Admission Requirements" or "Transfer Admission Requirements" above, whichever is appropriate, with the following exceptions pertaining to standardized tests:

1. Freshman applicants who have taken Scholastic Aptitude Tests (SAT) within the past five years are required to communicate with the Educational Testing Service, Box 592, Princeton, New Jersey 08540; or Box 1025, Berkeley, California 94701, to request that official scores be sent directly to The American University, Office of Admissions and Financial Aid.
2. If the applicant completed secondary school within the past two years and did not take the SAT, the applicant must arrange to do so. Information on how to apply may be obtained from the Educational Testing Service.
3. If the applicant completed secondary school more than two years ago and did not take the Scholastic Aptitude Test, the applicant may be asked to take an alternative examination at the direction of the Office of Admissions and Financial Aid.
4. The American College Test is accepted in lieu of the Scholastic Aptitude Test.

Readmission

An undergraduate student whose studies at the university are interrupted for any reason for a period of one semester (excluding the summer sessions) other than an approved leave of absence must submit a formal application for readmission to the Office of Admissions and Financial Aid at least two months before the beginning of the semester or summer session for which the student wishes to be readmitted, unless written permission to study at another collegiate institution was secured in advance or the student has been granted an official leave of absence. (See "University Degree Requirements" below.)

Students who were in good standing when they left the university and who have maintained a satisfactory grade

point average at another school are virtually assured readmission. It is to a student's advantage to apply for readmission as early as possible so that he or she may advance register.

A student who is readmitted is subject to the academic requirements and regulations in effect at the time of readmission. Students applying for undergraduate readmission must pay a fee of \$35.

Degrees

Associate Degree

The Associate in Arts degree requires the completion of at least 60 credit hours. At least twenty-four of the last thirty credit hours applied to the degree must be taken in residence at The American University. A maximum of thirty-six credit hours may be transferred to the degree.

Students must complete at least twenty-four hours of courses in the General Education Program including one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas. Students must also fulfill the College Writing and English Competency Requirement and the College Mathematics and Quantitative Competency Requirement.

(For more information, see "University Degree Requirements" below.)

Bachelor's Degrees

The university offers the following bachelor's degrees: Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A.), Bachelor of General Studies (B.G.S.), Bachelor of Music (B.Mus.), Bachelor of Science (B.S.), Bachelor of Science in Business Administration (B.S.B.A.). All bachelor's degrees require completion of at least 120 credit hours of course work. At least 45 credit hours out of the last 60 must be completed in residence at The American University. A minimum of fifteen credit hours must be completed at The American University in upper-level courses in the student's major. A maximum of 75 hours may be transferred towards a bachelor's degree.

Within the total 120 credit hours, students must fulfill a six-hour College Writing and English Competency Requirement, a three-hour College Mathematics and Quantitative Competency Requirement, a thirty hour General Education Requirement, and requirements for a major. (For more information, see "University Degree Requirements" below.)

Two Undergraduate Degrees

Two undergraduate degrees may be conferred if a student satisfies both major and major-related requirements within two departments or schools and accrues at least 150 credit hours.

In order to be eligible for the second bachelor's degree, the student must apply for admission to the second degree program, preferably by the end of the junior year. If the student is granted admission to the second program, then

upon completion of all requirements for the first program and the award of the first degree, the student's status will be changed to the second program. The student must again apply for graduation to be granted the second degree.

Bachelor's/Master's Degrees

Some departments offer programs which allow students to earn both a bachelor's and a master's degree in a planned program of study during the third and fourth undergraduate years and first graduate year.

Students are admitted to each level according to requirements established by the teaching unit.

Six graduate credit hours may be applied to the requirements for both degrees. For graduate programs requiring more than thirty-six credit hours, the number of hours applicable to both degrees may be increased.

Fields of Study

Major Requirements

Each undergraduate must complete at least thirty-six credit hours in the degree major and related courses, no fewer than fifteen of which must be earned in upper-level courses taken in residence at The American University.

A grade of C (2.00) or better is required for each course in the major. Students should note that a C- does not qualify and any course with a C- or lower will have to be repeated or an equivalent course taken to satisfy the major requirement involved. Courses in the major may not be taken on a pass-fail basis without the special permission of the student's dean or department chair.

Declaration of Major

By the end of the sophomore year, if not before, each student must choose and declare an academic major. Formal declaration of the major is required on a form available from the departmental, dean's, or registrar's office.

Admission to the university in an undergraduate program does not automatically constitute admission to a major program. Acceptance is official only when specific approval has been granted by the department or program chair or designee and recorded by the Office of the Registrar.

Double Majors

A student can complete a double major by satisfactorily passing the major and major-related course work required by two departments or schools.

If the double major is pursued in two schools, the student must designate when declaring the two majors which school he or she will be registered in and graduated from. The student will need to satisfy the general requirements of that school only. If a student is majoring in two recognized majors that lead to different degrees (e.g., B.A. and B.S.), the student specifies which of the two degrees is to be awarded.

16 Undergraduate Study

A student may apply the same course to both major programs if it fits into both sets of requirements.

Interdisciplinary Majors

In addition to the established major programs, students have the option of constructing their own major programs leading to B.A. or B.S. degrees. To design and complete an interdisciplinary major, a student must have the advice and approval of three faculty members: one major adviser (who must be a full-time faculty member) and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student actively for the rest of the student's undergraduate career. The two sponsors will assist the major faculty adviser in areas outside the adviser's field.

Interdisciplinary major programs must include at least forty-two credit hours including six credit hours in independent study or senior seminars and thirty-six credit hours selected to form an academically sound, unified, and well-defined program. At least 75% of the thirty-six credit hours must be upper level as defined by the teaching units that offer them. Students are encouraged to include at least two 500-level courses, although in some areas this may not be possible. A maximum of eighteen credit hours of work completed prior to the semester in which application is made may be included in the program.

The two independent study courses or senior seminars (six credit hours) must be supervised by the major adviser and must be focused on the program's central concept.

For permission to undertake an interdisciplinary major, the student applies to the dean of the school or college in which he or she is enrolled. (For more information, see "Interdisciplinary Studies".)

Changes in Field of Study

A student who wishes to change from one college or school to another, or from one major to another, must receive the permission of the dean or department chair in charge of the program to which the student wishes to transfer. This is done on forms available from the dean's or departmental offices and filed in the Office of the Registrar. A change in college, school, or major affiliation, when approved, does not become effective until the beginning of the next semester. It does not become effective if the student is suspended or dismissed. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Minors

Minor programs may be established by teaching units in any area for which there is an analogous major. All minor programs consist of eighteen to twenty-four credit hours, including at least nine credit hours at the 300 level or above. Not more than six credit hours may be used to satisfy simultaneously the requirements of both a major and a minor. For all minors offered by the College of Arts and Sciences, at least nine credit hours of the stated re-

quirements must be taken in residence at The American University.

A grade of C (2.00) or better is required for each course used to satisfy the requirements of a minor.

Graduation clearance for minors follows procedures analogous to those for majors. Formal declaration of a minor is made at the time of the student's application for graduation clearance. Minors will be posted on the student's permanent record at the time of graduation but will not appear on the student's diploma.

Specific course requirements for individual minors are listed along with the descriptions of the analogous majors in this publication.

Interdisciplinary Minors

Students may also earn an interdisciplinary minor by completing an individually constructed program satisfying the requirements stated above and consisting of courses from different disciplines united by a common theme and modeled after interdisciplinary majors. Students should consult their deans' offices for additional information.

University Degree Requirements

It is university policy that no student shall be involuntarily subject to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or the loss of academic credits earned to satisfy the requirements previously in effect.

Undergraduate students are governed by the following minimum requirements for the undergraduate degree (each teaching unit may have further major and major-related requirements). Undergraduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Credit Hours

A total of 120 credit hours is required for the bachelor's degree. Individual bachelor's degree programs may require the completion of more than 120 credit hours. (For more information, see the individual degree program descriptions.) A total of 60 credit hours is required for the associate degree.

Residence

To be eligible for a bachelor's degree from The American University, a student must complete, in residence at the American University, a minimum of 45 credit hours out of the last 60 credit hours that apply toward the degree and must complete a minimum of 15 credit hours of upper-level courses in the major field at The American University. More may be required by the department chair or dean, according to the department's normal requirements for a major. A maximum of 75 credit hours may be transferred toward a bachelor's degree.

To be eligible for an associate degree from The American University, a student must complete, in residence at The American University, a minimum of 24 credit hours out of the last 30 credit hours that apply toward the degree. A maximum of 36 credit hours may be transferred toward an associate degree.

Credit earned in any American University course, on or off campus, is residence credit. Credit earned by an American University student through the Consortium of Universities of the Washington Metropolitan Area is also residence credit.

Grade Point Average

Students enrolled in an undergraduate degree program must maintain a grade point average of at least 2.00 in order to remain in good standing and to graduate.

University Competency Requirements

College Writing and English Competency

All students must be able to write with a level of mastery equal to the demands of college course work. In addition, students need to acquire the critical reading skills applicable in all their college courses. During the freshman year students develop competence by taking one of the following required six-credit course sequences:

- 23.100 College Writing *and*
23.101 College Writing Seminar
- 23.102 College Writing *and*
23.103 College Writing Seminar
(for students who need extra work
on language skills)
- 23.130 Honors English I *and*
23.131 Honors English II
- 23.205 Issues, Ideas and Words *and*
23.101 College Writing Seminar
or
23.103 College Writing Seminar
(for students in the APEL Program)
- 74.200 College Reading and Writing I *and*
74.201 College Reading and Writing II
(for nonnative speakers of English)

Students who complete the College Writing Requirement in one of these ways need not take the English Competency Examination. (Note: courses must be passed with a C or better).

Students may be exempted from this course work and from the competency exam by earning an Advanced Placement English Test score of 4 or 5. A student who earns a CLEP College Composition exam score of 75% will satisfy one semester of the College Writing Requirement but must take either 23.100 or 23.101 and the English Competency Examination to satisfy the entire requirement.

Students who transfer six hours of acceptable composition credit from another institution will satisfy the College Writing Requirement by passing the English Competency

Examination. Students who transfer three hours of acceptable composition credit from another institution may satisfy the requirement by passing the first course in the College Writing Requirement with a C or better or by taking the second course of the sequence and passing the English Competency Examination.

If a student fails the competency exam twice, the student must enroll in 23.180 Writing Workshop (or 74.280 College Writing Skills Workshop for nonnative speakers of English) and must pass the course with a grade of C or better.

Nonnative and native speakers of English must meet the same requirements. All students whose first language is not English are required to have their proficiency evaluated by the English Language Institute (ELI) before their first registration, whether or not they transfer English credit from another institution. Nonnative speakers of English may fulfill the requirement by taking 74.200 and 74.201 or by taking the same competency examination that native speakers take. ELI has the primary responsibility for advising nonnative speakers of English for the English Competency Examination, evaluating their examinations, and providing whatever support services are needed for nonnative speakers who do not pass the examination. Students who need assistance should contact the Competency Coordinator, English Language Institute, McKinley 200, (202) 885-2147.

College Mathematics and Quantitative Competency

All students must demonstrate skills in mathematics and quantitative reasoning at the college level. Students must meet the College Mathematics Requirements during the freshman year and before enrolling in the foundation course in The Natural Sciences curricular area of the General Education Program. The mathematics requirement may be satisfied through course work or examination.

Students meeting the requirement through course work must receive a C or better in one of the following courses:

- 41.150 Finite Mathematics
- 41.170 Precalculus Mathematics
- 41.211 Applied Calculus
- 41.221 Calculus I
- Any American University 41.xxx course that has any of these courses as the prerequisite, or any 42.xxx statistics course.

Students may also satisfy the College Mathematics Requirement through examination by passing an examination equivalent to Finite Mathematics given by the Department of Mathematics and Statistics (may be taken only once, during the first semester) or with the following scores:

- AP Calculus AB score of 3, 4, or 5
- AP Calculus BC score of 3, 4, or 5
- Mathematics II Achievement test score of 650
- CLEP Calculus exam score of 75%

Transfer students must satisfy this requirement by passing the Finite Mathematics Equivalency Examination (which may be taken only once), presenting one of the test scores listed above, taking 41.150 Finite Mathematics, 41.170 Precalculus Mathematics, 41.211 Applied Calculus, 41.221 Calculus I, or any American University 41.xxx course that has any of these courses as the prerequisite, or any 42.xxx statistics course.

Because the Finite Mathematics Equivalency Examination tests proficiency in college level mathematics, only those students with very good mathematics backgrounds, e.g. Math SAT scores over 600 and/or at least four years of good performance in high school mathematics, should expect to satisfy the College Mathematics Requirement with this examination. Consult the Department of Mathematics and Statistics, (202) 885-3120 for additional information concerning the Finite Mathematics Equivalency Examination.

General Education

The American University's General Education Program, required of all undergraduates, is designed to provide a challenging and focused liberal arts foundation. The General Education Program constitutes approximately one third of a student's course work at the university. During the first year, students satisfy university requirements by earning a grade of C or better in six hours of College Writing course work and three hours of College Mathematics course work or through examination. In addition to university requirements, students take thirty hours of General Education requirements drawn from five curricular areas: The Creative Arts, Traditions that Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural Sciences. These requirements are normally completed during the first two years of study.

The American University is committed to giving students a strong intellectual foundation, insuring that they understand the interrelatedness of a wide range of intellectually and culturally important disciplines, and that they experience the challenge and excitement of study in depth. Consequently, each student takes two sequenced courses in each of the five curricular areas, a foundation course followed by a second-level course that reinforces the objectives and concepts of the first course.

The program is based on the idea that students should develop an appreciation of the forms of creative human expression; awareness of the cultural, philosophical, and historical frameworks of the world's cultures; an understanding of the structures, patterns, principles, and values that affect the organization of societies and the relationship between the individual and society; and the ability to apply diverse modes of inquiry and critical reasoning to gather data and solve problems. In short, the General Education Program aims to develop informed, effective minds suited for a complex and changing world.

Academic Standards and Regulations

Academic Load

An undergraduate student admitted to and enrolled in a degree program usually registers for fifteen credit hours each semester so that the required minimum of 120 credit hours for the bachelor's degree is completed in four years.

In any given semester, a student may carry a minimum of twelve credit hours and be classified and certified (for veteran's benefits, financial aid, etc.) as full time for that semester. The additional credit hours must be made up through summer enrollment or by an overload (if approved by the dean) in another semester in order to maintain normal annual progress toward the degree, as is often required by the regulations of government agencies. Students are urged to become familiar with such regulations. A total of seventeen credit hours is the maximum load permitted without special approval.

An undergraduate student wishing to register for more than seventeen credit hours in a semester is required to have the approval of the academic adviser and the appropriate dean. The approval is for the overload, not permission for a specific course. A per-credit-hour tuition fee is assessed, in addition to the full-time tuition fee, for registered credit hours in excess of seventeen.

Class Standing

Undergraduate class standing is defined as follows:

Credit Hours Completed	Standing
0-29	Freshman
30-59	Sophomore
60-89	Junior
90-120	Senior

Students enrolled in a degree program requiring the completion of more than 120 credit hours will be considered seniors from the time they have completed 90 credit hours until they have completed all of their degree requirements.

Evaluation of Progress

An evaluation of each undergraduate student's progress is made by the office of the student's dean after each semester. In addition to the cumulative grade point average, this evaluation considers completion of all university requirements and the ratio of courses satisfactorily completed to all courses attempted by the student. Students who are not making satisfactory progress are informed in writing of the result of their evaluation and offered academic advisement.

The university has no strict regulations governing the total amount of time an undergraduate student may take to fulfill the requirements for a degree, provided the student maintains the appropriate grade point average and

gives evidence of being seriously interested in the eventual achievement of his or her academic objective.

Academic Probation and Dismissal

An undergraduate student who fails to maintain the required 2.00 cumulative grade point average but whose average is 1.75 or higher may be granted probationary status for one year. Academic probation is an action usually taken only in the first two years of full-time study or the equivalent in part-time study. Dismissal may be anticipated by any student whose cumulative grade point average in the third or fourth year of full-time study (or the equivalent in part-time study) falls below 2.00, or whose average in any semester falls to 1.00 or below. Actions involving academic probation and dismissal are entered on the student's permanent record and may not be removed.

A student on probation may be subject to restrictions as to the course load for which he or she may register. Such a student is ineligible to hold office in student organizations or to participate in intercollegiate activities. The student may be given permission to participate in intercollegiate athletics at the end of a semester in which the student's cumulative grade point average has been raised to 2.00, even though the student's probation may extend for an additional semester.

It should be noted that the grade point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade point average.

A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Freshman Forgiveness

A freshman who, during the first two semesters of full-time study, receives a grade of F or X in a course may repeat the course at The American University within the calendar year thereafter or in the next two regular semesters in which the student is enrolled. If the course is not offered within that time, the student may use the option the next time it is offered. No grade is removed from the student's record, but only the grade earned the second time the course is taken is used in calculating the grade point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

A part-time undergraduate or nondegree student who, during the first thirty credit hours of study, receives a grade of F in a course may repeat the course at The American University within one calendar year after the semester in which the grade of F was received, with the resulting cumulative index benefits stated above.

The freshman forgiveness rule does not apply to transfer students even though they may have entered the university with freshman status.

Pass-Fail

Students may take up to 50% of their courses on a pass-fail basis. If a student's major department approves, this percentage may be greater. Courses in the student's major must be taken for a letter grade unless special permission is given by the dean or department chair. The grade of P (pass) is not used in calculating the grade point average. (For more information, see "General Academic Information and Regulations.")

Graduate Credit

Senior students, with the written permission of their department chairs or deans, may enroll in specifically approved graduate courses not required for their undergraduate programs. Such courses must be designated in writing as graduate-degree credit at the time the student registers for them. A copy of this written agreement must be filed in the Office of the Registrar. Retroactive application of these credits for such purposes is not permitted. Credit for these courses may be applied toward meeting the course requirements for a graduate degree after the student has been awarded an undergraduate degree if the student is then admitted to a graduate degree program.

No course may be counted as credit toward both an undergraduate and a graduate degree, except as part of a formally prescribed combined undergraduate-graduate degree program.

Study at Another Institution

Study at another institution is usually undertaken during the summer or as part of an overseas program.

An enrolled student who plans to take courses at another college or university for transfer credit to The American University must be in good academic standing and must receive prior approval from the student's teaching-unit chair and college dean using the Permit to Study Abroad form or the Permit to Study at Another U.S. Institution form. For study abroad, approval is also required from the director of World Capitals Programs. If the course to be taken is outside the area of the student's major, the chair of the teaching unit which would offer credit for such a course must also approve the permit. Approval is granted for specific courses. (See also "Study Abroad" below.)

The visited institution, if in the United States, must be regionally accredited. Students who have earned 60 or more credits toward their degrees (junior standing) at the time they undertake work at another U.S. institution may have credit transferred only from institutions accredited for granting bachelor's or higher degrees. With departmental approval, transfer credit is applicable toward the requirements of a major. Transferred courses must be completed with a grade of C or better for undergraduate degree credit.

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to The Amer-

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ican University no credit toward General Education Requirements may be earned through transfer credit.

Leave of Absence

Undergraduate students desiring a leave of absence for reasons other than study at another collegiate institution should request an appointment with their dean. If it seems desirable to guarantee the student an automatic readmission, the dean will issue a permit for leave of absence. This permit will specify a limitation, one year at most, of automatic readmission to the same undergraduate program.

The permit becomes void if the student attends any domestic or foreign collegiate institution during the period of leave. In such instances, the student must obtain from his or her dean a permit to study at another institution before leaving The American University.

Resuming Study

Students who cease to attend the university for an entire semester, whether voluntarily or not, may not resume study until they have been readmitted. Readmitted students are subject to all regulations and must meet all requirements in force when studies are resumed unless other arrangements have been agreed to in writing by the student's dean before the beginning of such an absence.

Students who change degree objective, college, or school, or who choose to conform to new regulations or requirements, must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

University Honors and Awards

Dean's List

Each college or school may issue a dean's list of its undergraduate honor students at the end of each semester. The minimum standard for listing is a 3.50 grade-point average for the semester, earned in a full-time undergraduate program of not fewer than fifteen completed credit hours of which at least twelve hours must be completed for A-F grade credit.

University Honors Program

The University Honors Program offers a four-year program of honors options to qualified students. Honors work is offered at all levels and in all departments. The program is characterized by small seminars, individualized attention from faculty, unique access to the resources of Washington, D.C., and the special atmosphere of an honors community of committed faculty and students. In addition to these curricular opportunities, honors students may live on an honors floor in a residence hall and participate in such activities as field trips, concerts and theatre productions, and meetings and symposiums with members of the

Washington community, university leaders, and the honors faculty.

Curriculum

The comprehensive four-year program of honors options is drawn from the General Education curriculum as well as work in individual departments. Early honors work gives students a broad base of knowledge, skills, and understanding which serves as a foundation for increasingly specialized upper-level honors work in the major and related areas. Students graduate with either University Honors or University Honors in the Major. An honors coordinator in each teaching unit advises students on a specific honors program.

Requirements

The University Honors Program has three components: the foundation level with introductory and General Education honors options; advanced honors course work in the major and related areas; and a senior honors project. Students must complete thirty hours of honors work as follows: foundation level, 12 to 18 hours; advanced level, 6 to 12 hours; and senior project, 3 to 6 hours. Honors students elect the 12 to 18 hours of foundation-level work from honors English, honors Mathematics, and honors sections of General Education or departmental introductory courses. At the advanced level (.300 or above), the 6 to 12 hours of specialized honors work is drawn from honors seminars and honors sections of courses in the major or related fields, honors supplements linked to courses in the major or related fields, University Honors Program seminars, and honors independent study. All students must complete a minimum of six hours of advanced-level honors work in the major or related areas. All students complete an honors senior capstone project (3 to 6 hours). The senior project, which varies among teaching units, may include, for example, an honors thesis, a performance or exhibit, a major paper linked to an interdisciplinary colloquium, a publication, or a departmental capstone course. Honors program students must maintain a cumulative grade-point average of 3.00 or above.

Honors Graduation Requirements

Students who successfully complete the program (a minimum of 30 hours of designated honors course work as described above, with a grade of B or better in each honors course and a cumulative grade point average of 3.30 or above) are eligible to graduate with University Honors. Students who complete the requirements for University Honors, including twelve hours of advanced-level honors work including a senior project in the major, will, upon departmental recommendation, be eligible to graduate with University Honors in the Major.

Admission to the Program

Admission to the University Honors Program is determined by the honors director and an honors committee. Qualified entering freshmen, transfer students, and current students are eligible for admission to the program. Approximately 10% of the entering freshman class, selected on the basis of high-school record and SAT scores, is admitted to the program. Other students, including transfer students, may be admitted to the program at the discretion of the honors committee if they have achieved a

cumulative college grade-point average of 3.50 on a 4.00 scale for the equivalent of at least one full semester of work (fifteen credit hours). Students enrolled at The American University may also nominate themselves for admission to the program and are admitted to the program at the discretion of the honors committee.

Students who enter the University Honors Program after beginning the freshman year are not required to complete the full thirty hours of honors course work. Exceptions to the number of required hours are subtracted from the foundation-level requirements. Inquiries about admission to the University Honors Program should be addressed to the director of the program.

Graduation Honors

There are two kinds of undergraduate graduation honors at The American University: Latin Honors, based on cumulative grade point average, and University Honors, based on a combination of honors course options and cumulative grade point average.

To be eligible for graduation honors, students must have completed at least 60 credit hours required for their degree in residence at The American University and have achieved the requisite grade-point average.

Undergraduate Latin Honors and the grade point averages required are as follows: *summa cum laude*: 3.90 or higher; *magna cum laude*: 3.70 through 3.89; *cum laude*: 3.50 through 3.69. No more than fifteen credit hours taken pass-fail may be included in The American University work applied toward Latin Honors. Such courses are not computed into the grade point average. Honors are listed in the commencement program and on the student's diploma and permanent record.

Students who fulfill the requirements for the University Honors Program are eligible to graduate with University Honors. University Honors Program students whose honors work includes completion of twelve hours of advanced-level honors work in the department, including the senior project are eligible, upon departmental recommendation, to graduate with University Honors in the Major. Graduation with University Honors is listed in the commencement program and on the student's diploma and permanent record. (For more information, see "University Honors Program" above.)

Study Abroad

The American University runs numerous study abroad programs. (For more information, see "Special University Programs.") Undergraduate students enroll in these programs by applying to the program and following the normal registration procedure. Students may participate in study abroad programs offered by other institutions that are part of a regionally accredited U.S. college or university, and is recorded on the transcript of that institution. For determination of regional accreditation, the publication *Credit Given* is the accepted reference.

After consultation with and approval of the student's dean and the director of the World Capitals Programs, application is made directly to the institution for admission to its foreign study program. Transfer credit will be granted

on the basis of the transcript from the sponsoring U.S. college or university.

Students may also attend institutions abroad not affiliated with an American college or university. Requests for transfer credit must be made on a Permit to Study Abroad form and must be approved before the student registers at the foreign institution. The institution to be visited must be approved by the student's dean and the director of the World Capitals Programs. The director of World Capitals Programs will give final approval of the institution to be attended, will evaluate the official transcript when the student returns for the value in credit hours of the work completed, and will forward the transcript and evaluation to the Office of the Registrar for transfer of approved credit.

The student's academic adviser and dean will approve the academic areas or specific courses of study. Students must be warned that they might not receive credit for remedial language study if they are found deficient in the language of the country they visit. (See also "Study at Another Institution" above.)

Student Awards and Fellowships

The Office of Student Awards and Fellowships assists students in applying for prestigious award opportunities both during and after their undergraduate work at The American University. Fellowships and scholarships are awarded in virtually all academic disciplines for study and research experiences both in the United States and worldwide. They range from fellowships for long-term Ph.D. or graduate study to one-year study abroad opportunities, or even one-time monetary awards.

There are dozens of fellowships and scholarships for which American University students are eligible to apply. These include the highly prestigious Rhodes Scholarship, for two years of study at Oxford University, and the Marshall Scholarship, for two years of study at a university in England, Scotland, or Wales. The Mellon Fellowships in the Humanities and National Science Foundation Fellowships fund outstanding students interested in pursuing their doctoral degrees in the US and Canada. Fulbright and Rotary International Fellowships provide for a year of research and graduate study in a foreign country. Fassel Fellows serve at a U.S. embassy or consular office in Eastern Europe or the Soviet Union for one year. The Truman Scholarship funds outstanding students with an interest in public service for their junior and senior years and two years of graduate school.

A number of students from The American University have won these highly selective awards. Successful candidates for these opportunities possess a combination of commitment to service, leadership abilities, intellect and imagination as demonstrated by their scholastic achievement and campus and community activities.

The Office of Student Awards and Fellowships works with students individually to assist them in identifying awards of interest and to direct them to the appropriate campus representative for each award. The office works with students as they go through the application process. For more information about special awards and fellowships, consult the coordinator of the office, located in the Career Center.



American University literature professor Henry Taylor, recipient of the 1986 Pulitzer Prize for poetry

General Education Program

The General Education Program is designed for all undergraduate students regardless of degree program. Aimed at building a strong intellectual foundation, the thirty hours of General Education Requirements are drawn from five curricular areas. The program is designed to be completed during the first two years, enabling students ample time to pursue a major as well as internships and cooperative education.

Curricular Area Course Requirements

Students select courses from those that are designated in the catalog as General Education courses. Students choose two courses, one foundation course and one second-level course in the same cluster (six credit hours), in each curricular area:

The Creative Arts
Traditions that Shape the Western World
International and Intercultural Experience
Social Institutions and Behavior
The Natural Sciences

Courses at the foundation level introduce students to the fundamental concepts, issues, and achievements in the disciplines. Courses deal explicitly with the appropriate processes and standards for gathering and evaluating information (quantification, experiments, primary sources, authoritative texts) and interpretation (methods of investigation and analytic skills) in a specific disciplinary field. All science foundation courses include laboratory experience. The courses are designed to help students achieve a broad view of how different disciplinary viewpoints and fields of knowledge can contribute to their understanding of themselves and the world around them.

General Education foundation courses differ from traditional survey courses by integrating into the course some of the perspectives and foundation skills essential to a full education. These elements include the following, as appropriate.

- writing experience to enhance basic communication skills and to reinforce what is taught in the College Writing program
- a critical thinking component to enhance the ability to make and analyze judgments based on reasoning and evidence and to evaluate the reliability of sources of information
- recognition of the ethical issues pertinent to the field or discipline
- development of quantitative and computing skills
- development of intuitive, creative, and aesthetic faculties, and the ability to connect these with reasoning skills
- attention to a variety of perspectives, including those perspectives that emerge from the new scholarship on gender, race, and class as well as from non-Western cultural traditions

The second-level courses follow specific foundation courses, forming a coherent curricular sequence and reinforcing the learning objectives of the foundation course. The foundation courses selected from a variety of disciplines assure breadth in the student's program while the second-level courses build on the foundation and encourage study in depth.

Curricular Area 1: The Creative Arts

This dimension of the curriculum is designed to develop an informed understanding of literary and artistic creativity and of the distinct aesthetic languages of the visual arts, literature, music, theatre, and dance. Students gain this understanding through the study of historical and contemporary examples of the arts and letters, or through the disciplined practice of a creative art form.

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Course Goals

- study classic works of the human imagination
- critically analyze creative works from the viewpoints of form, style, and meaning
- understand how and by whom aesthetic value judgments have been made historically
- examine the nature of imaginative and intuitive thinking
- consider the relationship between problem solving and creativity
- develop aesthetic sensibility, discernment, and informed judgments
- explore the interaction of art and society
- develop creative and expressive abilities

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

05.100 Art: The Studio Experience

- 05.205 Drawing: Responding to Vision
- 05.210 Painting: Color, Form, and Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 05.220 Design: Color Theory and Practice
- 05.225 Design: Form, Space, and Vision
- 07.210 Modern Art: 19th and 20th Centuries
- 60.230 Meaning and Purpose in the Arts

05.115 Art: The Historical Experience

- 05.210 Painting: Color, Form and Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 07.210 Modern Art: 19th and 20th Centuries
- 07.215 Architecture: Washington and the World
- 23.270 Transformations of Shakespeare
- 67.210 The Great Composers: Lives and Music

17.105 Visual Literacy

- 05.205 Drawing: Responding to Vision
- 05.220 Design: Color Theory and Practice
- 07.215 Architecture: Washington and the World
- 67.220 Reflections of American Society on Stage and Screen
- 67.225 The African American Experience in the Performing Arts

23.105 The Literary Imagination

- 23.225 The African Writer
- 23.240 Narrative and Knowledge
- 23.245 The Experience of Poetry
- 60.230 Meaning and Purpose in the Arts

23.120 Interpreting Literature

- 03.225 Language and Human Experience
- 23.215 Writers in Print/In Person
- 23.225 The African Writer
- 23.245 The Experience of Poetry
- 23.270 Transformations of Shakespeare

23.135 Critical Approach to The Cinema

- 23.240 Narrative and Knowledge
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen
- 67.225 The African American Experience in the Performing Arts

67.110 Understanding Music

- 07.210 Modern Art: 19th and 20th Centuries
- 60.230 Meaning and Purpose in the Arts
- 67.205 Masterpieces of Music
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.225 The African American Experience in the Performing Arts

67.115 Theatre: Principles, Plays and Performance

- 03.225 Language and Human Experience
- 05.225 Design: Form, Space, and Vision
- 23.215 Writers in Print/In Person
- 23.270 Transformations of Shakespeare
- 67.200 Dance and Society

67.160 On Stage! Dance-Music-Theater

- 67.200 Dance and Society
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen

Curricular Area 2: Traditions that Shape the Western World

This curricular area aims to enrich students' knowledge and appreciation of Western civilization. Courses explore the people, forces, events, and institutions that have shaped history, and the various philosophical, religious, and ethical questions that provide the foundation for moral choice. Students become aware of the accomplishments and limitations of particular cultures, of how our lives today reflect the past from which we evolved, and of how ideas about the past shape perceptions of the present and plans for the future.

Course Goals

- understand the historical and philosophical traditions that shape the Western world
- recognize that Western intellectual traditions are defined by diversity as much as by commonality, by both resistance to and enrichment by influences from the rest of the world, and that challenge to authority has been a distinctive characteristic of these traditions
- read and discuss fundamental texts from these traditions
- examine and assess evidence, draw conclusions, and evaluate the meaning of these conclusions
- examine historical and philosophical issues critically and comparatively
- consider the contributions of ethical and religious systems to human life

- discuss the complex interplay between the rich varieties of tradition and the necessity of change

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

07.100 European Art: From Cave to Cathedral

- 07.205 Art of the Renaissance (Study Abroad)
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 61.220 Religious Thought

23.115 Remarkable Literary Journeys

- 23.235 African American Literature
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 23.265 Literature and Society in Victorian England
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 73.220 Cities and Crime

29.100 Historians and the Living Past

- 17.270 How the News Media Shape History
- 29.235 The West in Crisis, 1900-1945
- 33.200 Liberalism and Its Critics
- 57.230 Theories of Personality

29.110 Renaissance and Revolutions: Europe, 1400-1815

- 23.265 Literature and Society in Victorian England
- 29.205 America's Quest for the Good Society, 1607-1865
- 29.235 The West in Crisis, 1900-1945
- 60.210 European Philosophy and the American Experiment

29.115 Work and Community

- 02.210 Folk Traditions, Community, and Identity
- 23.235 African American Literature
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 29.215 Social Forces that Shaped America
- 73.220 Cities and Crime

53.105 Individual Freedom vs. Authority

- 17.270 How the News Media Shape History
- 29.205 America's Quest for the Good Society, 1607-1865
- 57.230 Theories of Personality
- 60.210 European Philosophy and the American Experiment
- 73.225 American Legal Culture

60.105 Western Philosophy

- 02.230 Tribal Traditions
- 29.200 Italian Civilization (Study Abroad)
- 60.210 European Philosophy and the American Experiment
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought
- 73.225 American Legal Culture

61.105 The Religious Heritage of the West

- 02.210 Folk Traditions, Community, and Identity
- 02.230 Tribal Traditions
- 07.205 Art of the Renaissance (Study Abroad)
- 29.200 Italian Civilization (Study Abroad)
- 61.220 Religious Thought

73.110 Western Legal Tradition

- 33.200 Liberalism and Its Critics
- 34.205 Ancient and Medieval Jewish Civilization
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought
- 73.225 American Legal Culture

76.150 Women's Voices Through Time

- 29.215 Social Forces that Shaped America
- 33.200 Liberalism and Its Critics
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought

Curricular Area 3: International and Intercultural Experience

This dimension of the curriculum is designed to create an informed understanding of our interdependent world and to foster greater intercultural awareness and communication. Courses in this area seek to develop an understanding of non-Western cultures and traditions. They also address both timeless and newly emergent issues of international relations and introduce students to cultural diversity and its effects on the interaction of peoples and states.

Course Goals

- understand those habits of thought and feeling that distinguish cultures from one another
- explore comparative and cross-cultural perspectives
- develop analytical skills appropriate to the study of international and intercultural relations
- understand concepts, patterns, and trends that characterize international and intercultural relations
- analyze systematically major issues such as war and peace, global order, distributive justice, and the finite character of the earth's resources

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

03.110 Culture: The Human Mirror

- 03.215 Sex, Gender, and Culture
- 21.205 Education for International Development
- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.245 The World of Islam
- 37.380 The Hispanic World
- 61.210 Asian and African Religious Traditions

19.110 The Global Majority

- 21.205 Education for International Development

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- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.230 International Development
- 33.250 Civilizations of Africa
- 65.230 Conflict and Change in Latin America

23.150 Third World Literature

- 03.215 Sex, Gender, and Culture
- 29.250 Civilization and Modernization: Asia
- 33.250 Civilizations of Africa
- 37.210 Latin America: History, Art, Literature

29.120 Imperialism and Revolution

- 03.210 Roots of Racism and Interracial Harmony
- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 53.235 Dynamics of Political Change

33.110 Beyond Sovereignty

- 03.220 Living in Multicultural Societies
- 21.205 Education for International Development
- 33.215 Competition in an Interdependent World
- 33.372 Brussels Seminar (Study Abroad)
- 33.373 Madrid Seminar (Study Abroad)
- 33.375 Vienna Seminar (Study Abroad)
- 53.235 Dynamics of Political Change

33.120 Between Peace and War

- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 37.200 The Soviet Union and the United States
- 65.225 Contemporary Arab World

33.140 Cross-Cultural Communication

- 03.210 Roots of Racism and Interracial Harmony
- 03.220 Living in Multicultural Societies
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 37.210 Latin America: History, Art, Literature
- 37.380 The Hispanic World

53.130 Comparative Politics

- 33.215 Competition in an Interdependent World
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.373 Madrid Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 33.375 Vienna Seminar (Study Abroad)
- 37.200 The Soviet Union and the United States
- 53.235 Dynamics of Political Change

61.185 Forms of the Sacred: Religions of the East

- 29.250 Civilization and Modernization: Asia
- 33.245 The World of Islam
- 33.255 Japan and the United States
- 61.210 Asian and African Religious Traditions
- 65.225 Contemporary Arab World

65.110 Views from the Third World

- 33.230 International Development
- 33.250 Civilizations of Africa
- 33.374 Buenos Aires Seminar (Study Abroad)
- 65.225 Contemporary Arab World
- 65.230 Conflict and Change in Latin America

Curricular Area 4: Social Institutions and Behavior

This dimension of the curriculum is designed to broaden understanding of the structures and principles that underlie and sustain political, social, and economic institutions. In addition, students examine the role of the individual in society through sustained analysis of major modes of organization and important theories and models.

Course Goals

- understand and critically analyze concepts, patterns, and issues that affect the organization of societies and the relationship between the individual and the society
- study institutions, systems, and patterns of governance and of economic and social organization that underlie contemporary societies
- critically analyze classic theories of human organization
- discuss the values and ethical issues that underlie social, political, and economic organizations
- examine the formulation of policies and the consequences of different policy options
- analyze distinctive methods of inquiry appropriate to the study of societal institutions and patterns, using quantitative as well as qualitative techniques

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

03.150 Anthropology of American Life

- 02.240 Poverty and Culture
- 03.200 City as Community
- 29.210 Ethnicity in America
- 65.205 The Family
- 76.250 The Social Reality of Women

19.100 Macroeconomics

- 02.240 Poverty and Culture
- 19.200 Microeconomics
- 53.210 Political Power and American Public Policy
- 65.220 Work and Leisure in America

53.110 The Individual and the Polity

- 17.205 Understanding Mass Media
- 29.220 Women in Modern America
- 53.210 Political Power and American Public Policy
- 53.215 Civil Rights and Liberties
- 60.225 Ethical Issues in Government, Business, and Media
- 65.210 Inequality and Stratification

54.105 Individuals and Organizations

- 21.200 Schools and Society
- 53.205 Conscience and Authority
- 53.215 Civil Rights and Liberties
- 57.205 Social Psychology
- 60.225 Ethical Issues in Government, Business, and Media
- 65.220 Work and Leisure in America
- 73.200 Deprivation of Liberty

57.105 Psychology: Understanding Human Behavior

- 17.205 Understanding Mass Media
- 53.205 Conscience and Authority
- 57.205 Social Psychology
- 57.215 Abnormal Psychology and Society
- 65.205 The Family
- 73.215 Violence and Institutions
- 76.250 The Social Reality of Women

65.100 American Society

- 03.200 City as Community
- 17.205 Understanding Mass Media
- 21.200 Schools and Society
- 29.210 Ethnicity in America
- 65.210 Inequality and Stratification
- 65.220 Work and Leisure in America

73.100 Justice in America

- 29.220 Women in Modern America
- 53.215 Civil Rights and Liberties
- 57.215 Abnormal Psychology and Society
- 73.200 Deprivation of Liberty
- 73.215 Violence and Institutions

Curricular Area 5: The Natural Sciences

This curricular area provides students with an informed understanding of the nature of scientific reasoning, discovery, and invention through a systematic exploration of the basic concepts and practices of biology, chemistry, physics, and experimental psychology.

Course Goals

- understand how science works through explicit examination of the historical development and current status of scientific methods, concepts, and principles
- understand how the sciences use successive experimentation to replicate, control variables, explain error, and build explanatory models
- experience scientific experimentation through laboratory exercises
- practice problem-solving using quantification, statistical analysis, and computer data manipulation
- analyze and evaluate the contributions of important scientists
- develop a respect for the finite resources of our planet, responsible use of technology and nuclear power, the limits of humane research, and the fragile wonders of the natural world

Foundation Courses—Students select one 100-level course in the curricular area including a laboratory experience.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

09.100 Great Experiments in Biology

- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry
- 15.220 Environmental Chemistry
- 57.225 Neurobiological Bases of Behavior
- 57.240 Drugs and Behavior

09.110 General Biology I

- 09.210 General Biology II
- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 15.200 Human Biochemistry
- 57.220 Perception
- 57.225 Neurobiological Bases of Behavior

15.100 Chemistry for the Modern World

- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry
- 15.220 Environmental Chemistry
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.240 Drugs and Behavior

15.110 General Chemistry I

- 15.210 General Chemistry II
- 09.240 Oceanography
- 15.200 Human Biochemistry
- 15.220 Environmental Chemistry
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy

51.100 Physics for the Modern World

- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 Perception

51.105 College Physics I

- 51.205 College Physics II
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 Perception

51.110 University Physics I

- 51.210 University Physics II
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works

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51.220 Astronomy

57.220 Perception

57.115 Experimental Foundations of Psychology

09.200 Structure and Function of the Human Body

09.220 The Case for Evolution

57.200 Behavior Principles

57.220 Perception

57.225 Neurobiological Bases of Behavior

57.240 Drugs and Behavior

Course Selection

Students select two courses, a foundation course followed by a more specialized course in an approved sequence, in each curricular area. Students will *not* be able to satisfy General Education requirements with more than two courses in any one discipline even though a discipline may have courses included in more than one curricular area. Courses required for College Writing and College Mathematics do not count in the two-course limit.

Prerequisites

A second-level course may not be taken for General Education credit unless the prerequisite foundation course has been completed. The university requirement in College Mathematics must be satisfied before the student enrolls in a foundation course in The Natural Sciences curricular area. The mathematics requirement may be taken concurrently with a Natural Science foundation course if the mathematics course has 4.1.150 Finite Mathematics or its equivalent as a prerequisite.

Relation to the Major

The requirements for the major, the area of a student's academic concentration, are listed under individual degree programs in this publication. Many of the courses in the General Education Program also meet requirements of the major. Students interested in a double major need to plan ahead if they expect to fulfill all requirements within 120 credit hours.

Grading Requirements

To receive General Education credit, a student must successfully complete a General Education course with a grade of D or better. Students may elect to take a General Education course on a pass/fail basis. However, if the course is also being taken to fulfill a requirement for the major the grading policies for that program should be consulted.

Advanced Placement Credit

Students presenting a 4 or 5 on the Advanced Placement Biology, Chemistry, or Physics examination may earn full credit for the General Education Requirement in The Natural Sciences. No other Advanced Placement credit may be used to meet the thirty semester hours of General Education Requirements in the five curricular areas.

Transfer Students

Transfer students satisfy their General Education Requirements through a combination of appropriate transfer courses and completion of courses in the General Education Program at The American University. Through the evaluation of equivalent courses taken at another institution and with the approval of a student's dean, transfer credit may fulfill all thirty credit hours. In some cases, students supplement transfer credit with General Education courses taken at the university to meet the thirty-hour requirement. The need to satisfy sequences is waived when six hours in a curricular area is accepted for transfer credit.

Associate in Arts Degree

In the fields in which the university offers an associate degree, this degree requires the completion of at least sixty credit hours. Twenty-four hours of courses must be in the General Education Program, to include one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas.

Study Abroad

Students who choose to participate in Study Abroad in Rome, Brussels, Madrid, Vienna and Buenos Aires may substitute that experience for a second-level course in the designated sequence and receive three credits toward the General Education Requirement. No other Study Abroad programs have been approved for General Education credit.

Study at Another Institution

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to a degree program at The American University **no** credit toward General Education requirements may be earned through transfer credit.

Graduate Study

Admission

The standard deadlines by which applications for graduate study and all supporting documents must be on file in the Office of Graduate Affairs and Admissions are as follows:

Fall	February 1*
Spring	October 1
Summer	March 1

* Recommended submission date for fall admission. All applications will receive consideration up to June 1 unless otherwise stipulated. International applicants must apply by February 1.

Applicants should check the chart in this chapter for exceptions established by the teaching unit of the intended major.

Application to graduate school is self-managed. This means applicants assemble all of the admission components (application form, recommendations in sealed envelopes, and official academic transcripts in sealed envelopes) and mail them in the large mailing envelope enclosed in the "Guide to Graduate Admission and Financial Awards" to the Office of Graduate Affairs and Admissions. *Attendance at all institutions must be reported whether or not credit was earned.* Failure to report all previous academic work (undergraduate and graduate) will be considered sufficient cause for rejection of an application or for dismissal from the university.

Graduate applicants are also responsible for ensuring that any required test scores be sent directly from the testing service to the Office of Graduate Affairs and Admissions.

Since graduate programs are highly individualized, applicants are encouraged to schedule an appointment with the academic adviser in the teaching unit to which they intend to apply.

The applicant is required to submit the application form and a nonrefundable application fee of \$50. Forms may be

obtained by writing or telephoning the Office of Graduate Affairs and Admissions, (202) 885-1098.

Notice of Admission

The Office of Graduate Affairs and Admissions will send the completed application and supporting documents to the appropriate academic unit for review. Usually departments will make a decision within four to six weeks. However, some departmental procedures take longer. Students should consult the department to which they are applying if they have questions about admission decisions.

Students who have applied for admission to a degree program must clear their admission status before registering for courses. Students who have not received notification of status should inquire directly of The Office of Graduate Affairs and Admissions before attempting registration. A provisionally admitted student will be designated as such at the time of admission.

Candidates for graduate degrees will be subject to the academic regulations in force at the time of their admission.

Admission Requirements

The minimum university admission requirements for graduate study are set out below. Please refer to the table following these requirements and to the appropriate college, school, and department sections of this publication for any additional requirements of the various units.

1. A bachelor's degree earned at an accredited college or university.
2. A 3.00 cumulative grade point average (on a 4.00 scale), in an undergraduate program, calculated on the last sixty credit hours of course work completed and presented at the time of application for admission.
3. Maintenance of a cumulative grade point average of at least 3.00 on a 4.00 scale in all relevant graduate work for which a grade has been awarded.

4. An applicant for graduate study may be admitted without reference to the undergraduate average provided the applicant has maintained on a 4.00 scale either a 3.30 cumulative grade point average in a master's degree program completed at an accredited institution, or 3.50 cumulative grade point average in the last twelve credit hours of a master's or doctoral degree program still in progress at such an institution at the time the application is evaluated, or in graduate work taken in nondegree status at The American University and applicable to the degree program being applied for.
5. An applicant for graduate study may be admitted without a bachelor's degree earned at an accredited college or university or without reference to the undergraduate average provided that he or she is a midcareer person from government or the private sector who has not attended school full-time for at least eight years and is applying for admission to a professional master's degree program. This exception must be justified by an evaluation of the applicant's work performance and his or her organization's recommendation.

Provisional Standing

Each college, school, or department of the university may admit to provisional standing a limited number of students who do not meet the minimum standards of either the university or the teaching unit. By the end of one full semester of full-time study or after the first twelve credit hours of part-time study, the student will be evaluated by the college, school, or department. Continuation in the graduate program will be permitted on favorable appraisal of the student's performance.

The provisional admission status of a graduate student who does not give satisfactory evidence of capability will be withdrawn. This constitutes dismissal of the student.

Transfer of Credit

The university is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

The evaluation of graduate work completed elsewhere by an entering graduate student, in terms of its applicability to the program at The American University, will be made by the office of the dean or department chair concerned no later than the completion of twelve credit hours of course work.

Up to six credit hours earned at another institution may be applied to a master's degree (except for the sixty-hour M.B.A. program, into which up to twelve credit hours may be transferred). Up to thirty-six credit hours earned at another institution may be applied to a doctorate, includ-

ing thirty credit hours for a master's degree earned at another institution and six credit hours beyond the master's degree.

For transfer credit, individual courses (that is, courses not part of a completed master's program) must have been completed with grades of B or better and must have been completed within seven years of the beginning of the semester for which the student is admitted to degree status at The American University.

In no case may graduate credit be given for course work designated as undergraduate by the offering institution.

In all cases students are required to meet the residency requirements established by the university and any further residency requirements which may be stipulated for each program by the individual departments. The student should refer to the section on "Credit Hour and Residence Requirements" and consult the individual department for further details.

Admission from Nondegree Status

Students who have not been denied admission to a degree program within the preceding year may enroll in non-degree status at The American University. (For more information, see "Nondegree Study".) A student registered in nondegree status who later establishes eligibility for admission to graduate degree status may apply a total of not more than 12 credit hours of graduate work completed while in nondegree status toward meeting the requirements for a graduate degree, provided the courses were completed within seven years of the beginning of the semester for which the student is admitted to degree status. To be considered for admission to degree status at the graduate level, a nondegree student must have maintained a grade point average of at least 3.00 (B) in all graduate-level work.

There is no guarantee that a nondegree student will be accepted into a degree program.

Students admitted to degree status ordinarily may not thereafter register as nondegree students until they have successfully completed their degree requirements.

Readmission

After expiration of the time limit for completion of a graduate degree program, readmission may be granted once for a period of three years (less any time given in previous extensions of candidacy), subject to the requirements of the particular degree in effect at the time of readmission, and may involve taking additional courses or other work or both. When a student is readmitted under these circumstances, the length of time that the student will be given to complete degree requirements and any additional courses, examinations, or other requirements which are deemed necessary by the teaching unit will be specified. Students applying for graduate readmission must pay a fee of \$50.

Graduate Admission Requirements

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
<i>College of Arts and Sciences</i>			<i>All applications will receive consideration up to May 1 unless otherwise stipulated.</i>	<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Anthropology	M.A., Ph.D.	All terms, preferably fall.	Standard*, should apply by January 15 to assure consideration for fall financial aid.	Two academic letters of reference; an example of student's work, e.g., term paper; send GRE scores if applying for financial awards. Additional information available from department.
Art	M.A., M.F.A.	All terms.	Standard*	Two letters of recommendation if previous degree not earned in department. Art History: Must have at least 24 undergraduate hours in art history. GRE scores if available. Fine Arts: Portfolio must be submitted to department.
Biology	M.A., M.S.	Spring or fall.	Standard*	Three letters of recommendation; only one may be from current place of employment; GRE General and Subject.
Chemistry	M.S., Ph.D.	All terms.	Standard*	Two letters of recommendation.
Communication, School of	M.A.	Fall for Journalism and Public Affairs; fall or spring for Film and Video; fall for Public Communication.	Journalism and Public Affairs: March 1. Film and Video: June 1, except for graduate assistantships. Public Communication: June 1, except for graduate assistantships.	Journalism and Public Affairs: School of Communication (SOC) application form and 1,000-word statement sent directly to Graduate Journalism Admissions Committee, SOC. Film and Video: GRE General; 1,000-word statement of purpose sent directly to Graduate Film and Video Program Director, SOC. Public Communication: 1,000-word statement of purpose sent to Graduate Public Communication Program Director, SOC. All programs: two letters of recommendation and graduate application are required, must be submitted directly to the Office of Admissions. International students must submit TOEFL scores; score of 600 required for Journalism and Public Affairs.

*The standard deadlines for application are: fall, February 1; spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
College of Arts and Sciences (cont.)			<i>All applications will receive consideration up to May 1 unless otherwise stipulated.</i>	<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Computer Science and Information Systems	M.S.	All terms.	Standard*	Previous course work, work experience, or willingness to do remedial work before beginning program; two letters of recommendation.
Economics	M.A., Ph.D.	All terms, fall preferred.	Standard*, but Ph.D. advised to apply before February 1 for fall, October 1 for spring.	Two academic letters of reference with university application; GRE General or Miller Analogies Test. International students submit TOEFL scores. Extensive personal statement required.
Education, School of	M.A., M.A.T., Ed.D., Ph.D.	All terms.	Standard*	Two academic letters of reference with university application; GRE General or Miller Analogies Test. International students submit TOEFL scores. Extensive personal statement required.
Health and Fitness	M.S.	All terms, preferably fall.	July 15	Program application, two letters of recommendation, Human Anatomy and Physiology, and Exercise Physiology. GRE or GMAT required.
History	M.A., Ph.D.	All terms.	Standard*	Two letters of recommendation from recent professors; GRE Verbal, Quantitative, and Analytic; no direct admission to Ph.D. from B.A. level; Ph.D. applicants should have a substantial beginning in a tool of research. Ph.D. applicants must submit directly to the department a substantial sample of recent written work.
Interdepartmental Science	M.S.S.T., M.S.	All terms.	Standard*	Two letters of recommendation; GRE General or Miller Analogies Test for M.S.S.T.
Language and Foreign Studies	M.A.	All terms.	Standard*	Two letters of recommendation from recent professors unless previous degree earned in department. Language and Foreign Studies: B.A. degree or equivalent in the foreign language and proficiency in appropriate language and culture. Linguistics Certificate Program: International students must take TOEFL with minimum score of 600.

*The standard deadlines for application are: fall, February 1; spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
<i>College of Arts and Sciences (cont.)</i>			<i>All applications will receive consideration up to May 1 unless otherwise stipulated.</i>	<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Literature	M.A., M.F.A.	All terms; fall or spring for Film and Video.	Standard* Film and Video: June 1 except for graduate assistantships.	Two letters of recommendation; GRE General recommended; samples of written work desirable, required for M.F.A.; interview recommended. Send writing samples to department. Film and Video: 1,000 word statement of purpose sent directly to Graduate Film and Video Program Director, School of Communication.
Mathematics and Statistics	M.A., M.S., Ph.D.	All terms, preferably fall.	Standard*	Two letters of recommendation; Ph.D. in Mathematics Education requires master's degree in education or mathematics.
Performing Arts	M.A.	All terms.	April 15	Two letters of recommendation; interview/audition preferred (required for provisional-status students and performance majors). Music composition majors must present a folio of three compositions of different kinds.
Philosophy and Religion	M.A.	All terms.	Standard*	Philosophy: Two letters of recommendation; an introductory course in philosophy with a grade of B or better; GRE General recommended. Philosophy and Social Policy: Two letters of recommendation, an introductory course in philosophy with a grade of B or better; GRE optional. Religion: Two letters of recommendation; GRE General recommended.
Physics	M.S., Ph.D.	All terms.	Standard*	Ph.D.: Two letters of recommendation unless previous degree earned in department.
Psychology	M.A., Ph.D.	Ph.D.: fall only; M.A., all terms.	February 1 for clinical program; Standard* for experimental program.	Letters of recommendation: two for M.A.; three for Ph.D. GRE General and Advanced Psychology required. Consult department for details.
Sociology	M.A., Ph.D.	All terms.	Standard*	Two letters of recommendation. GRE General recommended but not required.

*The standard deadlines for application are: fall, February 1; spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
				<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Kogod College of Business Administration	M.B.A., M.S., J.D./M.B.A.	All terms.	Standard* Note: Although applications will be considered until June 1, the February 1 deadline ensures timely processing.	Two letters of recommendation from professors or employers; GMAT for all programs. Applicants for the JD/MBA must take both LSAT and GMAT and apply directly to the Washington College of Law.
School of International Service	M.A., J.D./M.A., M.S., Ph.D.	M.A., J.D./M.A., M.S.: fall; spring Ph.D.: fall only	Ph.D.: January 15. Financial aid: January 15. Fall: January 15. Spring: October 1.	Two letters of recommendation for M.A., M.S., three for Ph.D. GRE General. International students educated abroad must take TOEFL in addition to the GRE. For J.D./M.A., applicants must have completed first year in the Washington College of Law. LSAT accepted in place of GRE.
<i>School of Public Affairs</i>				
Government	M.A., Ph.D.	M.A.: all terms; Ph.D.: fall.	M.A.: February 1 for financial awards; Ph.D.: February 1.	Two letters of recommendation; M.A.: GRE General required for financial awards, essay on career interest; Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
Justice, Law and Society	M.S., J.D./M.S., Ph.D.	All terms.	Standard*; M.S., Ph.D.: February 1 for financial awards.	Two letters of recommendation; GRE General for M.S.; J.D./M.S. applicants must have completed first year in Washington College of Law; LSAT scores accepted in place of GRE scores for J.D./M.S. applicants.
Public Administration	M.P.A., M.S.H.R., Ph.D.	M.P.A.: all terms; M.S.H.R.: consult department; Ph.D.: fall.	M.P.A.: standard*; M.S.H.R.: consult department; Ph.D.: February 1.	Two letters of recommendation; M.P.A.: GRE General required for financial awards, essay on career interest; M.S.H.R.: Two years of managerial experience. Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
	M.P.F.M.	All terms.	Standard*	Two letters of recommendation; GRE General required for financial awards; essay on career interest.

*The standard deadlines for application are: fall, February 1; spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
				<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Washington College of Law	J.D. J.D./M.A. J.D./M.B.A. J.D./M.S.	Entering students: fall only. Advanced students: all terms.	Entering students: March 15.	Baccalaureate degree from an accredited college or university; LSAT; LSDAS. For the J.D./M.B.A., applicants must take both the LSAT and the GMAT. Apply directly to the Washington College of Law.
Interdisciplinary Studies	M.A., M.S.			Graduate students must first be accepted into another program and may then transfer into an interdisciplinary studies program.

University Degree Requirements

It is university policy that no student shall be involuntarily subjected to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or loss of academic credits earned to satisfy the requirements previously in effect.

Graduate students are governed by the following minimum requirements for the graduate degree (each teaching unit may have further requirements). Graduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Credit Hour and Residence Requirements

Master's Degrees

At least thirty credit hours of graduate work including (a) six credit hours of research resulting in a thesis (the thesis option) or (b) six credit hours of graduate work with grades of B or better involving a case study, an in-service project, an original creative work, specified research courses, or such other effort as the academic unit may designate (the nonthesis option).

At least twenty-four of these hours, including the thesis or nonthesis option, must be completed in residence at The American University. Up to twelve credit hours taken in nondegree status at The American University may be counted toward the degree, or up to eighteen credit hours if earned in a completed graduate certificate program.

Doctoral Degrees

For students admitted to graduate work at The American University without a previously earned master's degree, the requirement is 72 credit hours of graduate study including no fewer than twelve and no more than twenty-four hours of directed study on the dissertation. At least forty-two of these hours, including the research requirement, must be completed in residence at The American University. Up to twelve credit hours taken in nondegree status at The American University may be counted toward the degree, or up to eighteen hours if earned in a completed certificate program. Course credit earned toward a master's degree at The American University may, if relevant, be counted toward the Ph.D. degree.

For students admitted with a master's degree earned previously, the requirement is at least forty-two credit hours of additional graduate work, of which thirty-six hours, including the research requirement, must be completed in residence at The American University.

Prerequisite Undergraduate Credit

Credit earned in undergraduate courses taken as required prerequisites for other courses by graduate students may not be counted toward satisfying the total credit requirement for a graduate degree, and grades earned in

such courses are not used in calculating the student's grade point average.

Graduate-Undergraduate Courses

Graduate students may take graduate-level courses that meet with undergraduate-level courses. However, no more than fifty percent of course work taken in residence (not counting thesis or dissertation seminars without regular meetings) may be taken in joint graduate-undergraduate courses.

Grade Requirements

Students enrolled in a graduate program must maintain a cumulative grade point average of at least 3.00 in order to remain in good standing and to graduate. The calculation of the graduate cumulative grade point average is specific to the program in which a student is enrolled. Only graduate-level American University courses that are accepted by the degree-conferring teaching unit as fulfilling degree requirements are included in the cumulative grade point average.

Minimum Grades

No degree credit is earned by a graduate student for any grade lower than C (2.00) received in a graduate-level course. However, grades lower than C (2.00) are used in calculating the grade point average.

Tools of Research

Each academic unit specifies the tool-of-research requirement. Tools should relate to research in the student's discipline. The student's satisfaction of tool requirements is certified by the teaching unit, but aid in ascertaining this may be sought outside the unit.

Advancement to Candidacy

Each academic unit may at its discretion require a formal advancement to candidacy and determine the nature of the advancement procedure it will use.

Examinations

Master's Degrees

At least one comprehensive examination, the nature and scope of which are determined by the academic unit, is required.

An oral examination on the thesis may be required by the academic unit.

Doctoral Degrees

At least four comprehensive examinations are required, at least one of which must be oral. At least two of the comprehensive examinations must be written and must be taken within one year following the completion of the residence requirement. A qualifying examination and

master's comprehensive examination, if taken at The American University, may, at the discretion of the academic unit, be credited toward the comprehensive requirements for a doctoral degree. Comprehensive examinations given by other institutions will not be credited toward the satisfaction of degree requirements.

An oral examination on the dissertation is also required.

Examination Timetable

For both master's and doctoral degree students, the dean or department chair (or designated representative) determines the time and eligibility for taking the comprehensive, tool, and (where required) oral examinations.

Application to take comprehensive examinations is made to the academic unit on a standard form available from that office. After approval is obtained, the student pays the appropriate fee at the Office of Student Accounts. In most cases, students should plan to apply during the first week of classes of the semester in which they plan to take the examinations.

Examination Fields

Although fields for comprehensive examinations may have been planned early in the graduate student's academic career, it is possible to change the fields up to the time the student actually submits an application to take the comprehensive examinations. Each college, school, or department offers its current list of standard comprehensive examination fields, including certain "core" fields and areas in which candidates in particular degree programs must present themselves for examination. (These fields are listed under the various teaching units in this publication.) A student may choose from the list (including the required core) the ones that are appropriate to the student's own interests and objectives.

In some disciplines, it is possible to choose a field outside the major area of interest, but such a field must be one that is available at the time of the candidate's application to take the comprehensive examinations.

Examination Grading

Usually, each comprehensive examination written by a candidate is read by two readers and is rated "distinction," "satisfactory," or "unsatisfactory" by each. In order to pass the examinations, the candidate must obtain at least satisfactory from both readers in each of the examination fields. In the event of a disagreement in the ratings between readers as to whether or not the candidate should pass, a third reader is appointed to break the deadlock.

Each dean or department chair may, however, elect to determine a different system of grading comprehensive examinations. Students should consult the specific college, school, or department to ascertain what system is used. The system described above is the traditional one used by most of the university.

Re-examination

Comprehensive Examination: A student who fails a comprehensive examination (other than a qualifying examination) may be permitted additional attempts within two years. The nature and extent of the examination to be retaken and the number of retakes allowed will be deter-

mined by the academic unit. Teaching units may establish their own rules for retaking qualifying examinations.

Thesis and Dissertation Oral Examinations: In the event of failure to complete the oral examination satisfactorily, the academic unit may, at its discretion, permit one retake.

Theses and Dissertations

Thesis and Nonthesis Options

For master's candidates, the thesis is expected to demonstrate the student's capacity to do original, independent research. Some colleges, schools, and departments offer the opportunity to substitute a case study, an in-service project, an original creative work, or specific advanced research courses in lieu of a thesis. In each such case, the thesis seminar or other accepted alternative must be considered part of the residence requirement for the master's degree and must meet the standards of the individual college, school, and department as well as those of the university.

No academic credit is given for the master's thesis unless the student registers for the thesis seminar. However, a student should not enroll for this seminar until ready to start work on the formal thesis proposal or the thesis itself. Traditionally, an advisory committee is appointed for each candidate working on a thesis. The committee may be composed of no fewer than two members, at least one of whom must be a member of the full-time faculty. An oral examination by this committee is often required. Suggestions for revision may be made as conditions that must be met before members will sign the title page of the thesis. If the chair of the thesis committee or the department chair certifies failure to complete a satisfactory thesis, the student may be dismissed from the university.

A student who writes a thesis must adhere to the required form and content for the proposal and to the other procedures described in detail in the published guides that may be obtained from the office of the dean of the college or school.

Students electing the nonthesis option should consult the individual program descriptions in this publication and obtain specific departmental requirements from their teaching units. The university minimum requirement is two research-oriented courses. These courses must be completed with grades of B or better.

Dissertation

Capping the requirements for the doctorate is the dissertation, together with the required oral examination of the dissertation by the student's teaching unit. Normally, the candidate must have completed all other academic requirements for the degree before the oral examination can be held.

A candidate who is declared ready to proceed to the dissertation must submit a dissertation topic proposal reporting the results of preliminary research. This proposal should contain, among other things, a concise statement of the major problem of research and of related supporting problems, the data to be used, a selected bibliography, a statement of the probable value or importance of the study,

a brief description of the methods to be used, and a preliminary outline of the dissertation in some detail.

After approval of the proposal by the candidate's adviser, it is presented to the dean of the college or school for final approval. Acceptance of the proposal indicates that the topic is a suitable one and that the dissertation will be accepted if developed adequately by the candidate. The university will take responsibility for directing research only in fields and problem areas that its faculty members feel competent to handle. Acceptance of a dissertation topic proposal under no circumstance commits any department or school or the university to accept the dissertation itself.

A dissertation advisory committee of three to five persons is usually appointed by the candidate's academic dean for each candidate undertaking a dissertation. After the draft manuscript has received the tentative approval of all members of the committee, the committee chair arranges for the oral examination. This covers the dissertation itself and the general field in which it lies. Conditions to be met before final acceptance of the dissertation may be specified without necessarily holding a second oral examination. If the chair of the dissertation committee or the department chair certifies failure to complete a satisfactory dissertation, the student may be dismissed from the university.

Protection of Human Subjects

Any proposed thesis or dissertation in which research will involve experimenting on, interviewing, surveying, or observing human beings is subject to review under the regulations of The American University to determine whether the researcher has made adequate provision for the protection of human subjects. The American University regulations are based on 45 Code of Federal Regulations (CFR) 46, "Protection of Human Subjects."

Candidates who request outside funding for research have their proposals reviewed by the University Institutional Review Board (IRB). If no outside funding is involved, the teaching unit IRB designee conducts the review and submits a report for IRB records. Each candidate is requested to complete The American University Institutional Review Board form, "Research Proposal Review". It is the responsibility of the degree candidate to submit the form for review and to make any revisions required to the research plan to bring it into compliance.

Copies of the university's regulations, 45 CFR 46, the review form and additional information are available from the teaching unit chair or IRB designee for human subject review, or from the Compliance Administrator in the Office of Research Services.

Thesis or Dissertation Progress

It is the collective responsibility of the student, the student's adviser, and the student's committee to ensure that satisfactory progress is being made on the student's thesis or dissertation. The student may request, at least once each semester, that the committee meet with him or her to discuss progress.

Final Manuscript

Candidates are responsible for being familiar with and complying with the regulations concerning the form and

preparation of the final manuscript, abstract, copyright, and so forth, which may be obtained from the dean or department chair of the teaching unit offering the doctorate. Certain deadline dates are found in the *Schedule of Classes* published for each academic term. These must be met if a candidate expects to receive a degree at the appropriate commencement.

Filing of Thesis or Dissertation

On completion of the final manuscript, a student obtains the signature of the department chair and dean on the Thesis/Dissertation Completion form, and takes the form and the manuscript to the Office of Student Accounts to pay the fee. This fee is required for entering into the mandatory agreement with University Microfilms. Every thesis and dissertation must be microfilmed. The student then proceeds to the Office of the Registrar for certification of the completion of degree requirements, and then to the library for filing of the manuscript. This procedure is to be followed after all other requirements for the degree have been satisfied.

Publication

It is the policy of the university to encourage publication of dissertations, case studies, and theses, with acknowledgment to the university. If substantial alterations are made before publication, this fact must be noted in the prefatory statement that gives acknowledgment.

Academic Standards and Regulations

Academic Probation and Dismissal

A graduate student who fails to maintain a 3.00 grade point average after completion of the first twelve credit hours of graduate study may be placed on academic probation for one semester, after which the student must achieve and maintain a 3.00 average or be dismissed. A graduate student may be placed on academic probation only once. It should be noted that the grade point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade point average. A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Academic Load and Full-Time Status

The normal load of full-time graduate study is nine to twelve credit hours a semester; however, an academic unit may declare circumstances under which full-time involvement in thesis or dissertation research constitutes full-time standing.

In summer sessions, because of the combination of six-week and seven-week sessions, there are various possibilities for full-time standing. Usually, registration for six credit hours during any session is considered full-time.

Maintaining Matriculation

Students whose degree requirements have not been completed must register each fall and spring semester during regular registration periods for courses, for thesis or dissertation seminars, or for maintaining matriculation. Those who do not will be considered as having withdrawn. Such students may then reapply and, if readmitted, are governed by requirements and regulations in effect at the time of readmission.

Students who change degree objective, college, or school, whose candidacy for an advanced degree expires, or who choose to conform to new regulations or requirements must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

Statute of Limitations

Candidates for a master's degree must complete all degree requirements no later than three years after the date of first enrollment in the degree program. Candidates for the doctoral degree must complete all degree requirements no later than five years after the date of first enrollment in the doctoral program, or seven years if the doctoral program was entered directly from a bachelor's degree.

A student may petition for an extension of candidacy in a degree program for a limited period if such extension is sought before these time limits expire. In no case may the total amount of time granted in extensions of candidacy exceed three years. If, however, the time limit has expired, a student may seek readmission to the university for a period of no more than three years, less any time granted in previous extensions of candidacy.

Readmission to an advanced degree program may involve completing additional courses or other appropriate work. Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended for the amount of time required to complete them.

All But Dissertation Master's

Students who enter a doctoral program without a master's degree may be awarded the appropriate master's degree by The American University in the field in which

their doctoral work is being done when they have completed all requirements for the doctorate except the dissertation.

Leave of Absence

Graduate students are not eligible for a Leave of Absence, except for reasons of military or government assignment required as a direct result of hostilities or war in which the United States is engaged, or for incarceration resulting from refusal to accept induction under such circumstances. In such instances, a tuition refund will be given and other charges prorated on the basis of the number of weeks during which the student was registered for classes in a given semester. If a student has completed at least ten weeks of a session, he or she may be given full credit for any course, subject to the approval of the instructor and department chair. Additional work may be required. No tuition refund will be given for courses for which credit was given.

A student whose studies are interrupted for the reasons stated above may resume study at The American University in the same degree program, provided he or she returns within a period of six months following the completion of duties and provided that the degree program in which the student was enrolled is still offered. A student who wishes to be enrolled in a different degree program must apply for readmission.

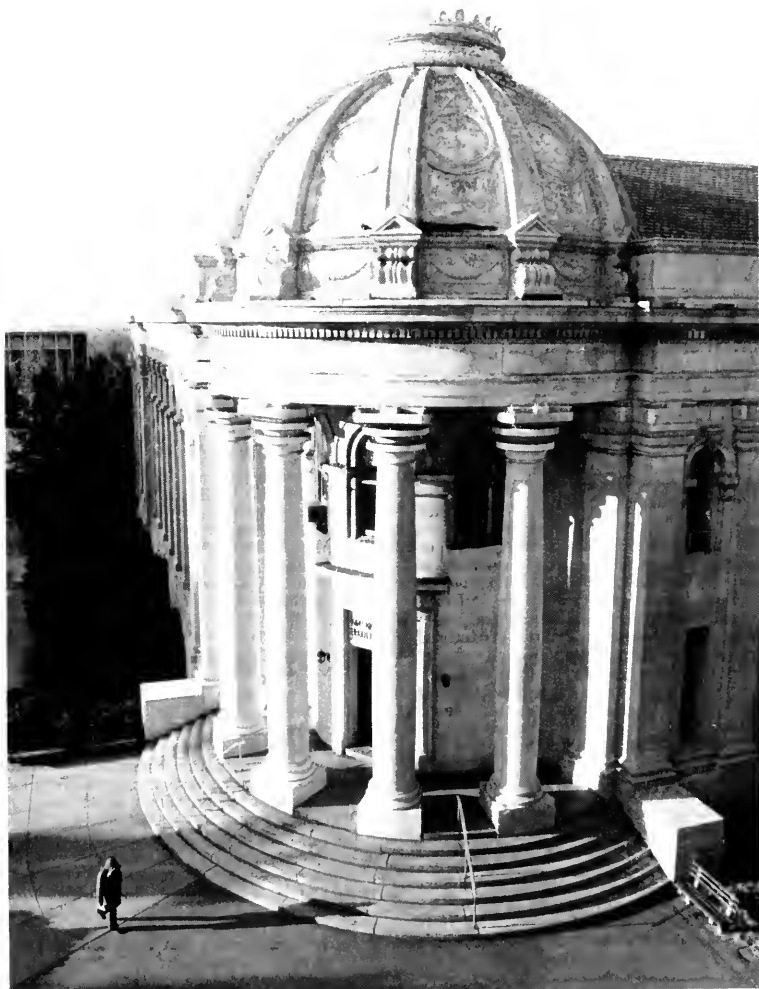
Changes in Field of Study

A graduate student who wishes to change field of study or school affiliation may request an approval of the change on the appropriate form available in the Office of the Registrar. A graduate student who wishes to change colleges must apply through the Office of Graduate Affairs and Admissions. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Study at Another Institution

In a program of graduate study, circumstances may arise wherein a graduate student, with the advice and counsel of the student's academic unit, may find it appropriate to take a graduate course available only at a non-consortium institution. In this event, the student must secure in advance approval in writing from his or her advisor and dean. Approval is granted for specific courses. The student must, however, conform to regulations governing the maintenance of matriculation at The American University during each fall and spring semester. In addition, the student must still satisfy the residence requirement of the university.

Transferred courses must be completed with a grade of B or better for graduate degree credit. Grades for transferred courses are not recorded on The American University's permanent record or computed in the student's grade point average.



The McKinley Building houses the University Programs Advisement Center.

Nondegree Study

Nondegree status is the designation used for students who are enrolled in credit courses at The American University and are not currently pursuing a degree program. Many persons begin their studies in nondegree status and apply the credit they have earned toward a degree program in one of the schools or colleges of the university.

The University Programs Advisement Center (UPAC) provides academic counseling and registration support for all nondegree students and for students in certificate programs, the Assessment of Prior Experiential Learning Program (APEL), and the Bachelor of General Studies (B.G.S.) degree. The center also handles registration for noncredit workshops and seminars. For information call (202) 885-2500.

Enrollment Criteria

Nondegree students may enroll in any university course for which they have the necessary academic background and qualifications.

Undergraduate-level courses are open to high-school graduates; students in good standing at other accredited colleges and universities; students with an undergraduate degree; and high-school students who have a B average and the recommendation of their high school counselor or principal.

Graduate-level courses are open to students who have completed a bachelor's degree.

The following students ordinarily may not register in nondegree status:

- Students currently enrolled as undergraduate- or graduate-degree students in any of the member institutions of the Consortium of Universities of the Washington Metropolitan Area;
- American University students who have not completed their degree programs;
- Students who have ever been dismissed from The American University or another college or university;
- Those who have been denied admission to a degree program at The American University.

Special Departmental Requirements

Kogod College of Business Administration: To register for undergraduate courses at Kogod College, students must be able to demonstrate that prerequisites have been met. If prerequisites have been completed at a college/university other than The American University, students must provide copies of appropriate transcripts.

To register for graduate-level courses at Kogod College, students must have satisfactory GMAT scores and a satisfactory grade-point average in the last sixty hours of undergraduate work. Students must provide copies of all undergraduate and graduate transcripts and the GMAT results.

Note: Departmental approval must be obtained for all business administration courses.

Other: Departmental approval must be obtained for all courses at the 600 or 700 level and for all courses in the following departments: Applied Music, Art (Studio and Design), Communication, Community Studies, and the English Language Institute.

International Students

Special regulations apply for students who are not citizens of the United States of America, including those with permanent resident status. (For more information, see "International Student Information.") International students are advised to request information on enrollment policies from the University Programs Advisement Center.

Registration

Nondegree students register for courses through the University Programs Advisement Center. Information on university degree programs, certificate programs, and courses is available at the Advisement Center, which is staffed with experienced academic advisers who are familiar with the particular needs of part-time and adult students. The center is open throughout the year and holds evening and Saturday hours.

Students planning to transfer academic credit from another institution into an undergraduate degree program

should consult with an academic adviser before their first nondegree registration and should bring with them all transcripts of previous college work.

Academic Standards

Nondegree students are held to the same academic standards as degree students. Undergraduate students must maintain a 2.00 (C) grade point average; graduate students must maintain a 3.00 (B) grade point average.

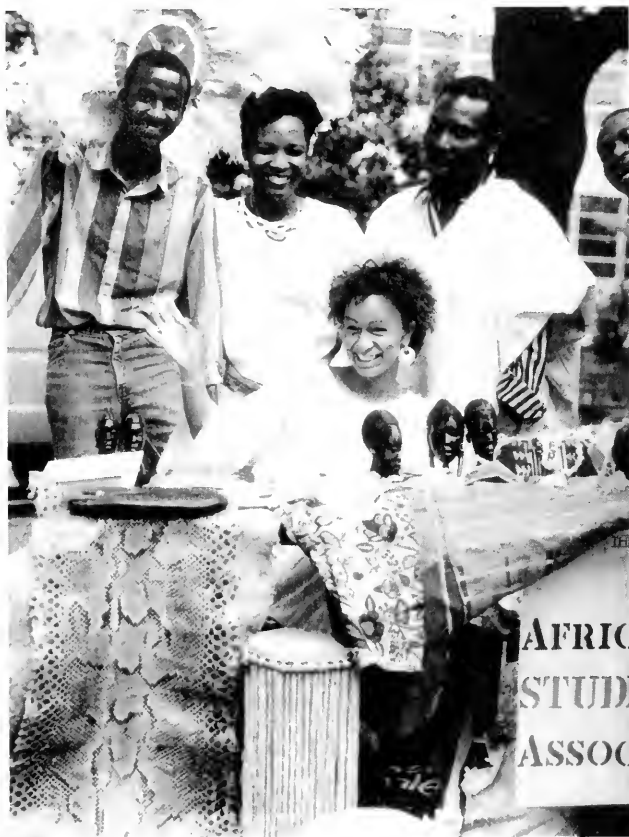
Transferring from Nondegree to Degree Status

Students may apply a specified amount of credit earned in nondegree status toward a degree program.

Undergraduate students may apply up to thirty credit hours taken in nondegree status toward an undergraduate degree program.

Graduate students may apply up to twelve credit hours of graduate-level courses taken in nondegree status toward a graduate degree program or up to eighteen hours if earned in a completed certificate program.

To apply to a degree program students must submit the appropriate application forms and supporting documents.



International Student Information

The following regulations apply to all students who are not citizens from the United States of America, including students with permanent immigrant status.

Degree Admission

In addition to submitting the university's application for admission and meeting the requirements set forth in the application, all international applicants to undergraduate-degree programs must arrange to have official transcripts from all secondary schools attended sent to The Office of Undergraduate Admissions. International applicants to graduate degree programs must arrange to have official transcripts from all colleges attended sent to The Office of Graduate Affairs and Admissions. These documents should be sent well in advance of the semester for which the applicant seeks admission. Personal student papers, photostats, or attested copies are not accepted for evaluation purposes.

All international students whose first language is not English and who are applying for admission as undergraduate or graduate degree students are required to take the Test of English as a Foreign Language (TOEFL). Information regarding procedures for taking this test may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08541, U.S.A., or from secondary-school counseling offices, U.S. consulates, or binational centers. Students who submit TOEFL exam scores of 600 or above are considered for waivers from courses in English as a second language. Students who have graduated from an accredited U.S. college or university with a bachelor's, master's, or Ph.D. degree are also considered for waivers from courses in English as a second language.

Nondegree Enrollment

All international nondegree students must begin their registration in the University Programs Advisement Center (UPAC) and must present evidence of successful completion of high school (or its equivalent) and of courses taken in any colleges or universities attended. Nondegree inter-

national students should present photocopies of translated documents for evaluation and counseling purposes. These documents remain in the student's file in the Advisement Center. International students in nondegree status must request that official documents be sent to the office of undergraduate or graduate admissions when they apply for admission to a degree program.

English Language Requirement

All students, degree and nondegree, whose first language is not English are required to have their English proficiency evaluated by the English Language Institute (ELI) before their first registration unless they are graduate students who have scored 600 or more on TOEFL. International students whose command of English is insufficient to follow the program in which they wish to enroll will be required to take special courses in English as a second language.

Students placed in four English classes (intensive English) may not take any other courses concurrently. Exceptions require the permission of the English Language Institute and the student's academic adviser.

Visa Requirements

Students on nonimmigrant F-1 and J-1 visas are required by U.S. Immigration and Naturalization Service regulations to maintain a full-time course-load enrollment during fall and spring semesters. If the student's first term is a summer session, the full-time course-load requirement will apply for that summer.

In compliance with these regulations, undergraduate students are required to register for at least 12 credit hours or 18 English Language Institute contact hours each semester, and graduate students for at least 9 credit hours or 18 English Language Institute contact hours. Any change in registration that results in a course load below these minimum requirements must be authorized by the Office of International-intercultural Student Services (OIS) in consultation with the student's academic adviser.

Students who fail to meet these requirements are not eligible to receive for the semester a Certification of Eligibility (I-20), Form IAP-66, or any other letters of certification in support of their continuation in nonimmigrant F-1 or J-1 visa status. They also lose their eligibility for on-campus employment, practical training, and other immigration benefits.

All students bearing nonimmigrant foreign student visas are required to attend, initially, the educational institution that issued the Certification of Eligibility (Form I-20), or IAP-66, used to obtain the F-1 or J-1 visa.

Students bearing F-1 or J-1 visas are reminded that a change of schools from one U.S. educational institution to another must be made according to U.S. Immigration regulations. Such changes are handled through the Office of International-Intercultural Student Services.

Students in Exchange Visitor (J-1) visa category requesting transfer to The American University's exchange-visitor program from another exchange-visitor program must obtain written approval from the Office of International-Intercultural Student Services before registration for university classes will be authorized. This requirement applies to all students entering the university who hold a J-1 visa at the time of admission.

Questions concerning United States Immigration and Naturalization Service regulations governing foreign students, exchange visitors, or foreign researchers or faculty should be directed to the Office of International-Intercultural Student Services, Butler Pavilion 408; telephone: (202) 885-3350 fax: (202) 885-3354. Regular office hours are Monday through Friday, 9:00 a.m. to 5:00 p.m.; extended hours are followed during periods noted in the *Schedule of Classes* as "Extended Hours" and "Late Registration".

Health Insurance

Health insurance is mandatory for all full-time degree, resident, and international students (except those on A, G, and H visas). Students are automatically billed for a university-sponsored plan when they enroll. Students may waive this coverage, however, if they are covered by a similar plan paid for by their family, employer, sponsor, or government. If you wish to waive the university plan, you must fill out a waiver form. Waiver forms are included as part of the university's billing statement or may be obtained from the Student Health Center. The deadline for waiving insurance expires on October 1, 1991 (for students with initial registration in the fall semester) and on February 15, 1992 (for students with initial registration in the spring semester).

Registration Procedures

In addition to the normal registration instructions, the following regulations apply to international students.

1. All students who are enrolling at The American University for the first time or for a new program and are not citizens or permanent residents of the United States are

required to obtain the signature of the international student adviser at the time of registration for courses. This includes special group registration as well as regular registration. Students need to bring to the OIS their passport, I-94, I-20, or IAP-66, along with their class registration form, academic recommendation of the English Language Institute, or admission letter stating language waiver. Nondegree students must also bring the International Nondegree Student Enrollment form issued by the University Programs Advisement Center.

2. All returning students on F-1 and J-1 visas are required to obtain the signature of the international student adviser. Returning international students in other visa categories do not need the international students adviser's signature.
3. New international students, whether degree or non-degree, must take an English proficiency test before they register. (See "English Language Requirement" above.)
4. International students may take courses in the university's off-campus program, however they must complete their registration on-campus.
5. All new nondegree international students should begin their registration in the University Programs Advisement Center at least five working days before the end of registration. Failure to do so may cause the new nondegree international student to be registered during the period of late registration and therefore to be subject to the late registration fee. Students must present translated copies of their previous academic records in order to enroll.

English Language Institute

International students wishing to enroll in the English Language Institute, either full time or part time, must have completed the equivalent of a U.S. high-school education (twelve years of schooling).

Students who are applying for permission to enroll in the English Language Institute for English only do not have to take the Test of English as a Foreign Language (TOEFL).

After filing an application, a financial verification form, and notarized and translated academic transcripts or proof of completion of high school, students who are accepted will be sent a formal letter of acceptance from the English Language Institute and a Certificate of Eligibility (Form I-20) for a student visa (if required) from the Office of International-Intercultural Student Services.

Admission to intensive English courses in the English Language Institute in no way implies eligibility for admission to any program or course of study in other divisions of The American University. (For more information, see "Special University Programs.")

Information and course dates will be mailed upon request by writing to the English Language Institute, The American University, Washington, D.C. 20016, U.S.A., or by calling (202) 885-2147.

Tuition, Expenses, and Financial Aid

Tuition and Expenses

Undergraduate students who register for twelve to seventeen credit hours are assessed tuition at the full-time rate. Undergraduate students who register for fewer than twelve credit hours are assessed tuition based on the number of credit hours taken. Undergraduate students who register for more than seventeen credit hours are charged the full-time tuition rate with an additional charge for each semester hour over seventeen. Graduate and nondegree students are assessed tuition per credit hour.

The off-campus tuition rate differs from the rate for on-campus courses. Full-time undergraduate students, however, who register for courses both on and off campus are assessed tuition at the on-campus full-time rate.

Washington College of Law students are assessed tuition on the same basis as are undergraduate students. However, the Washington College of Law tuition rate differs from that of the rest of the university.

Given probable continuation of current economic conditions, as well as the need to continue to accelerate the academic development of the university, it is reasonable to expect that tuition and fee increases will be required for each year in the near future. The university will attempt, however, to limit tuition and fee increases to reasonable levels.

Tuition

<i>Undergraduate Students</i>	
Full-time (12–17 credit hours)	\$6753
Part-time (per credit hour)	451
<i>Graduate Students</i>	
(per credit hour)	475
<i>Law Students</i>	
Full-time (12–17 credit hours)	7817
Part-time (per credit hour)	579

(For the purpose of determining full-time status, noncredit courses will be included in and equated with credit courses according to the number of scheduled meetings each week.)

<i>Nondegree Students</i>	
(per credit hour)	451
<i>Off-Campus Programs</i>	
Full-time (12–17 credit hours)	6120
Part-time (per credit hour)	408

Auditors pay the same charges as students enrolled for credit and are subject to all applicable special fees listed below.

Charges for institutes and other special courses may be found listed under their departments and schools in the *Schedule of Classes* published each academic term.

Residence Hall and Meal Plan Charges

On campus Residence Halls (per semester):

<i>Anderson, Hughes, Leonard, Letts, and McDowell Halls</i>	
Single Occupancy	\$2326
Converted Double	2719
Double Occupancy	1886
Triple Occupancy	1376
<i>Capital, Congressional, and Federal Halls (Tenley Campus)</i>	
Single Occupancy	\$2326
Single with bath	2719
Double Occupancy	1886
Triple Occupancy	1376
<i>Centennial Hall</i>	
Single Occupancy	\$2820
Double Occupancy	2236
<i>Nebraska Hall</i>	
Single Occupancy	\$2719
Double Occupancy	2136

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Residence Hall Association Fee (per semester) . . . 6
(Optional: waived only on submission of waiver form to the Office of Residential Life before the end of the first week of classes. Once paid, this fee is nonrefundable.)

Off-campus Graduate Student Apartments

Devonshire Apartments

Efficiency (per month) \$465
One Bedroom (per month) 550

Glover-Turlaw Residence Hall

Units leased on an annual basis during the period
June 1-May 31 at the following monthly rates:
One-Bedroom Unit (per month) 607
Two-Bedroom Unit (per month) 855

Meal Plan Charges (per semester)

Main Campus

14 Meals Plus Plan \$1100
10 Meals Plus Plan 1060
7 Meals Plus Plan 760

Note: Plus portion of plan is to spend as cash in the retail dining facilities other than the Terrace dining room

Tenley Campus

14 Meal Plan \$1060
10 Meal plan 981

Special Fees

These fees are nonrefundable. The charges listed below are not included in tuition and general fees.

Note: Special course and laboratory fees are listed in the *Schedule of Classes* published for the academic term and are also nonrefundable.

Admissions

Undergraduate Application Fee \$35
Graduate Application Fee 50
Law School Application Fee 45
Readmission 35
Graduate Readmission 50
Admission Testing Fee (per test) 5

Graduation

Graduation Application Fee \$25
(No reapplication fee is charged)

Health

Health Fee (per semester) \$35
(For full-time off-campus students.)
Health Insurance (per year) 290*
(For full-time degree, resident, and international students. The fee is assessed automatically and may be waived during the first three weeks of the term if the student possesses comparable private or group coverage.)
*assessment based on students entering for fall 1990 semester

Parking (per year)

Resident Student \$286
Commuter Student 140
Part-time Commuter Student 60
(Undergraduate and law students: fewer than 12 credits; graduate students: fewer than 9 credits; proof of part-time enrollment must be provided.)

Faculty/Staff Restricted 240
Faculty/Staff General 140
Faculty/Staff Part-time 60

(Full-time students do not qualify for this permit.)

Motorcycle 72

Registration

Alumni Audit Program Registration Fee \$50
Alumni Audit Late Registration Fee 10
Faculty/Staff Registration Fee 50

(For employees of the university or their spouses registering under the tuition remission benefit.)

Late Registration Fee 50
(effective the first day of the term)

Sports Center

Full-Time Fee (per semester) \$50
Part-Time Fee (per semester) 25

Student Accounts

American Installment Plan
Program Fee (per year) \$50
Late Fee (per monthly payment) 20
Deferred Payment Plan Fee (per semester) 40
Reinstatement Fee 50
Returned Check Fee 15

(For personal checks not honored by the bank.)

Student Confederation Fee (per semester)

Full-Time Students \$55
Part-Time Students 10
(mandatory for all undergraduate degree students)

Student ID

Student Picture ID Card Replacement Fee \$5

Transcript

Official Transcripts Fee (per transcript) \$2

Graduate Student Fees

The following charges apply to graduate students only:

Graduate Student Council

(per semester) \$20
(Mandatory for all graduate students, full-time and part-time.)

Maintaining Matriculation

(per semester) 475

Comprehensive Examination Application

(per examination)
Master's and Doctoral 25
Additional Fee if in Absentia 100

Microfilming

Master's Thesis or Case Study 25
Doctoral Dissertation 35

Law School General Fee (per semester)

Full-Time Students 110
Part-Time Students 80
Summer 20

Note: For estimated total yearly cost of attendance at The American University, see "Financial Aid" below.

Payment

Students participating in advance registration must pay the balance due on or before the due date as indicated on the bill sent from the Office of Student Accounts.

Students participating in direct registration must pay the balance due on the day they register.

Deferred Payment Plan

Registered students whose total bill, after deducting all forms of tuition assistance, exceeds \$2400 may elect the deferred payment plan. Under this plan, the student pays one-half the amount due (after deducting all forms of tuition assistance) by the initial due date and the remaining balance approximately seven weeks later. The amount due includes all charges, billed or unbilled, which have been incurred or will be incurred during the current semester.

The charge for the university deferred payment plan is \$40 each semester (not refundable).

Late Payments and Financial Stop

A late fee of \$50 may be assessed against a student's account for failure to meet the initial payment due date. A late fee of \$50 will be assessed for failure to meet the deferred payment due date.

In addition, failure to make payment when due will result in a financial "stop" being placed on the student's account. The financial stop will in turn result in a "hold" being placed on the student's academic records, including transcript and diploma, and may result also in denial of advance registration and use of the deferred payment plan or other credit privileges.

Financial stops may be removed following assessment and payment of a \$50 reinstatement fee. The university reserves the right to delay clearance until a personal check clears a financial institution.

A student who has once had a financial stop placed against his or her account may be denied future advance registration and deferred plan privileges even though the student has been reinstated on payment of the reinstatement fee. Repeated failure to make payments when due may result in severance of the student's relationship with the university.

Students who incur financial obligations in the parking and traffic office, library, health center, or athletic department may be subject to late payment fees and financial stop procedures.

Employer or Agency Tuition Assistance

A student requesting employer or agency billing arrangements must furnish the Office of Student Accounts with a valid contract or purchase order before the first day of classes. A contract or purchase order must contain the following information: (1) student name and social security number, (2) term of attendance, (3) specific costs (and dollar amounts) to be paid by the sponsor (tuition, books, supplies, fees), (4) sponsor's billing address, and (5) contract or purchase order number or accounting appropriation, if applicable. Documentation submitted in lieu of a valid purchase order will not relieve a student of financial responsibility.

In case of partial assistance, the student is required to pay the balance of his or her tuition costs at the time of

registration in order to be considered registered. A student portion which qualifies for the university deferred payment plan it is to be paid by the deferred due date. Failure to comply will result in the assessment of a late payment fee. (See "Late Payments and Financial Stops" above.)

A student entitled to Campus Store credit may obtain a book charge form from the Office of Student Accounts. Purchases are permitted through the end of the add-drop period.

Failure to submit vouchers in a timely manner may result in the assessment of late fees. A student is responsible for payment of any billed amounts which have been disallowed by his or her sponsor.

University Employee Tuition Benefits

Only full-time permanent faculty or staff employees of The American University are eligible for tuition benefits. There is a nonrefundable \$50 registration fee each semester.

Applications for faculty, staff, and spouse benefits are available at the Office of Personnel Services. The completed application must be approved by the Office of Staff Personnel Services and submitted to the Office of Student Accounts at the time of registration.

Late registration fees are not applicable to faculty and staff using employee tuition benefits.

Refunds and Cancellation of Charges

Tuition

Students who reduce their course load or who completely withdraw during the first four weeks of the semester must complete the appropriate forms available in the dean's offices and the Office of the Registrar, and submit the completed forms to the Office of the Registrar. The amount of tuition to be canceled will be calculated as of the date on which the withdrawal forms are received in the Office of the Registrar and in accordance with the tuition cancellation schedule in the *Schedule of Classes*. If the withdrawal results in a refund, the request for such refund should be made in the Office of Student Accounts.

Complete withdrawal from the university during or before the first week of classes will result in full cancellation of tuition charges provided the withdrawal form is received in the Office of the Registrar and dated no later than the first week of classes. A full cancellation of tuition will also pertain to a course dropped during the first week of classes.

Withdrawal from the university or course drops that result in course-load reduction during the first four weeks of classes are subject to the percentage cancellation schedule published in the *Schedule of Classes* for the semester.

Discontinuing attendance in class or notifying an instructor does not constitute an official withdrawal. Students who do not officially withdraw (by submitting to the Office of the Registrar either a completed Course Registration Change Form or a Withdrawal from the University Form) during the cancellation period will be responsible for payment of the full amount of the applicable tuition and fees.

Tuition and program fee refund policies and deadlines for study abroad programs may differ because of the

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unique circumstances of each program and location. Consult the World Capitals Programs Office at (202) 895-4900 for specific guidelines.

Room

Requests for cancellation of room charges must be initiated by the student in the Office of Housing Management. The student must then request any applicable refund through the Office of Student Accounts. The percentage cancellation schedule based on date of withdrawal is published in the *Schedule of Classes* for the semester.

Meal Plan

Students will be permitted to decrease or drop their meal plan only during the first fourteen days of each semester. Requests for meal plan cancellations must be initiated by the student in the Dining Services Office. Students then request any applicable refund through the Office of Student Accounts.

Financial Aid

All new or readmitted students must follow these steps to receive priority consideration for financial aid:

1. Submit admissions applications and all necessary supporting documents to the Office of Admissions by the appropriate deadlines.
2. Complete a Financial Aid Form (FAF) as soon as possible after January 1, 1992.
3. Mail the form to the College Scholarship Service, so that the FAF is received by CSS by March 1, 1992, the priority deadline.

Applications received after March 1, 1992 will be reviewed after on-time applications on a first-come-first-served basis as long as funds are available.

New students should not wait to be admitted before filing the FAF. A financial aid application has no bearing on a student's admission application. However, a student will not receive final consideration for aid until he or she is admitted to a degree program.

All transfer, graduate, and law students must provide a financial aid transcript from all postsecondary schools attended.

Undergraduate

The American University has an extensive program of scholarships, loans, and grants. (See "American University Programs" below.)

The college-based federal programs include: Carl D. Perkins Loans; Supplemental Educational Opportunity Grants (SEOG); and College Work-Study (CWS). Pell Grants are available through application to the federal government, and Stafford Loans (formerly Guaranteed Student Loans), Parent Loans for Undergraduate Students (PLUS), and Supplemental Loan for Students (SLS) are available from banks, credit unions, and other lenders. (For more information, see "Filing Instructions" below.)

Graduate

College-based federal programs include: Carl D. Perkins Loans and College Work-Study (CWS). Graduate Honor Awards and graduate fellowships and assistantships are available. Information concerning application procedures is given in "Filing Instructions" below.

Stafford Loans and PLUS/SLS loans are available from banks, credit unions, and other lenders.

Students in the Washington College of Law should use the Financial Aid Form to apply for Perkins Loans and CWS and the Graduate and Professional Student Financial Aid Service (GAPSFAS) form to apply for Washington College of Law financial aid programs. The law school recommends that students file the GAPSFAS by February 1, 1992. Guaranteed student loans and PLUS/SLS loans are available from banks, credit unions, and other lenders.

Filing Instructions

1. Incoming students must complete the American University Application for Admission. A student will not receive final consideration for aid until he or she is admitted to a degree program.
2. Incoming and continuing students should file a Financial Aid Form (FAF) with the College Scholarship Service (CSS) at the address given on the form and request CSS to send a copy to The American University (code 5007). Students will be considered for all programs for which they are eligible. Awards are based on the student's need and the amounts and kinds of assistance available; however, funds are limited. Awards are made beginning in late March, and students with complete financial aid files receive first consideration for the monies available. Aid recipients must reapply each academic year to be considered for further funds.
Be sure that the FAF is for the same academic year for which the application for aid is made. If the applicant is requesting aid for the 1991-1992 academic year, the 1991-1992 FAF must be submitted. The form is available from most secondary schools and colleges and from The American University, Office of Financial Aid.

3. File financial aid transcripts (if appropriate). All incoming transfer, graduate, and law school aid applicants must submit a financial aid transcript from all institutions previously attended. Transcript forms are available in the Office of Financial Aid. Incoming applicants must request each institution to send a transcript to The American University, Office of Financial Aid. Federal funds may not be disbursed to students until such transcripts are received.
4. File a Selective Service Registration Compliance Form and Certification of Nondefault Loan Status with the Office of Financial Aid.

Financial Need

The student's financial need is defined as the difference between the cost of attendance and a reasonable expectation of assistance from the family.

All financial aid is based on the assumption that students and their parents will contribute a reasonable amount to meet educational expenses. Students and par-

ents are encouraged to inform the Office of Financial Aid should major changes in their financial situations occur.

Estimated Cost of Attendance

Undergraduate:

Tuition	\$13,506
Student Fee	200
Books and Supplies	450
Room and Board	6046*
Personal and Travel Expenses	1300
Total	21,502

Graduate:

Tuition (9 credit hours per semester)	\$8550
Student Fee	130
Books and Supplies	636
Room and Board	7660*
Personal and Travel Expenses	2700
Total	19,676

* For students living at home, or off-campus but not with parents, adjustments to these room and board averages will be necessary.

Notification

The Office of Financial Aid carefully reviews the student's financial situation. If the student is eligible for assistance and monies are available, an offer of award is made. Very often the award is a "package" of assistance in the form of grants, loans, and work.

The Office of Financial Aid notifies applicants who meet the priority deadline as soon as possible after receipt of all application material. New students should note that they must be admitted to a degree program before any action will be taken on their financial aid applications.

Notification Dates:

Early Decision Freshmen	January 2
Regular Decision Freshmen	March 30
Transfer	April 30
Continuing Undergraduates	mid-June
New Graduate and Law	May 1
Continuing Graduate and Law	mid-June

Satisfactory Academic Progress

All aid recipients in all programs must maintain satisfactory academic progress toward their degrees in order to remain eligible for consideration. This progress is defined both qualitatively and quantitatively. At the least, undergraduates are expected to complete twenty-four credit hours each year with a cumulative grade point average of 2.00; graduate students must complete eighteen credit hours with a grade point average of 3.00. Certain aid programs carry additional restrictions to which the Office of Financial Aid must adhere. For more specific information, students should consult the Office of Financial Aid.

Refund Policy

Refunds of student aid to an eligible student are made through the university's Office of Student Accounts. Students with a credit balance must apply for a refund by completing the form "Student Refund Request" available in the Office of Student Accounts. Eligibility for a refund depends on the student recipient's enrollment status, cost of education and date of attendance. Changes in any of

these factors, such as dropping courses or withdrawal from the university, could result in the reduction of the student's aid package, thereby removing a potential credit balance. A student who withdraws from the university will receive only what balance remains, if any, after costs are calculated and aid is restored to the aid accounts, including the possible return of Stafford Loan funds to the lender. Also, a student who receives a refund based wholly or partly on financial aid and later changes enrollment status may be required to return all or part of the refund to the university.

Financial Aid Transcripts

Students may obtain transcripts of their financial aid records from the Office of Financial Aid. There is no charge.

Federal Programs

To receive financial aid through a federal program, a student must be a United States citizen or have a permanent resident visa.

The College Work-Study Program (CWS): This program provides the opportunity to work part-time on campus. Students must demonstrate financial need and be enrolled at least half-time.

Cooperative Education/College Work-Study Program: Students in the Cooperative Education Program receive academic credit and are paid for faculty-supervised employment. (For more information, see "Cooperative Education Program.")

Federal Loans

The Carl D. Perkins Loan Program: This program provides low-interest (5%) loans for degree-seeking students who demonstrate financial need.

A student may borrow up to a total of (a) \$4,500 if the student has completed less than two years of a program leading to a bachelor's degree; (b) \$9,000 for undergraduate study after completing two years of study toward a bachelor's degree (this total includes any amount borrowed under the Perkins Loan Program for the first two years of study); (c) \$18,000 for graduate study (this total includes any amount borrowed under the Perkins Loan Program for undergraduate study).

Repayment begins six to nine months after graduation or the end of enrollment on at least a half-time basis. The loan must be repaid within ten years. During the repayment period, 5% interest on the unpaid balance of the principal will be charged. Provisions for deferring or canceling payment are available in some situations. Students should consult the Office of Financial Aid for further information.

Stafford Loan Program: A Stafford Loan is a low-interest loan, insured by either the federal government or a state guaranty agency, available to students from banks, credit unions, or savings and loan institutions. An undergraduate student may borrow (a) \$2,625 each academic year if the student has completed less than two years of a program leading to a bachelor's degree; (b) \$4,000 each academic year for undergraduate study after completing two years of study toward a bachelor's degree. Graduate students

may borrow up to \$7,500 each academic year. The total aggregate allowed for undergraduate and graduate loans combined is \$54,750.

Students who wish to borrow under this program must file a Financial Aid Form (FAF) to demonstrate eligibility for the loan. Tax returns and other material may be required. The demonstrated need of individual borrowers may vary.

Repayment of the loan begins six months after a borrower drops to less than half-time status and may be extended over a five- to ten-year period.

Parent Loan for Undergraduate Students (PLUS) or Supplemental Loans for Students (SLS): The PLUS/SLS program was designed to provide parents and students with additional funds to assist them in meeting educational expenses. These loans, which are not based on need, are available from banks, credit unions, and savings and loan institutions.

Parents of dependent undergraduate, graduate, and law students may borrow up to \$4,000 per year up to an aggregate total of \$20,000. Independent undergraduates may borrow up to \$4,000 per year.

The interest rate on the PLUS/SLS program is variable and is currently at 11.49%. The maximum interest rate is 12%. Repayment generally begins within sixty days of the loan's disbursement and may be extended over a five- to ten-year period. Deferment of the principal is available while the student is studying on at least a half-time basis.

Federal Grants

Pell Grant Program: This program provides grant aid to eligible students enrolled at least half-time in degree programs.

Students may apply by completing the appropriate section on the College Scholarship Service Financial Aid Form (FAF) or by completing the Application for Federal Student Aid, both of which may be obtained from post-secondary education institutions, high schools, or The American University, Office of Financial Aid.

Applicants will receive a Student Aid Report (SAR) from the Department of Education and must submit all SARs and other required documents to the university. The amount of a Pell Grant award will be based on the Department of Education's determination of eligibility.

Supplemental Educational Opportunity Grants (SEOG): Federal funds are available through the university to undergraduate students with exceptional financial need.

State Scholarship and Grant Programs

Many states administer grant and scholarship programs which residents may apply for and receive while attending The American University. Students should check with local guidance counselors and state grant agencies regarding up-to-date application procedures and eligibility factors.

American University Programs

Restricted University Loans

Loans are available to needy students at The American University on a short-term basis. Funds are provided either by private endowments to the university or by the university itself. The qualifications for each of these programs vary according to the stipulations that the donors have made for the individual accounts. Funds are extremely limited and are considered a resource of last resort.

Alumni Association Loan Fund: The American University Alumni Association has established a loan fund for American University alumni who are pursuing part-time graduate study. The loan must be repaid with 2% interest. **Frank W. Ballou and Adeline J. Ballou Memorial Loan Fund:** This loan fund was established in 1985 by Mrs. Adeline J. Ballou of Washington, D.C. Its purpose is to assist needy and deserving students from the District of Columbia who are enrolled full-time in a degree program. Loan amounts vary.

Morris and Gwendolyn Cafritz Foundation for Middle Income Students Loan Fund: This revolving loan fund was established by a grant from the Cafritz Foundation of Washington, D.C. for middle income students who, without this assistance, would not otherwise be able to continue their education. Interest accrues at the rate of 7% per annum.

Class of 1932 and Class of 1961 Loan Fund: These funds are lent to worthy and needy full-time undergraduate students. Interest accrues at 4% per annum.

Sinclair B. Dell Loan Fund: A memorial loan fund was established to honor Dr. Sinclair Dell, a Washington podiatrist, who died of cancer in 1975. Repayment must be made within one year of the award at 2% interest.

General University Loan Fund: This loan is designed for both graduate and undergraduate students with no outstanding debts to the university. The interest is 4% per annum.

Rose Mae Howard Memorial Loan Fund: This fund was established in 1975 by the Rose Mae Howard estate to assist students who are in need of financial aid to complete their education. This loan is awarded to full-time juniors and seniors and bears a 9% interest rate upon repayment.

The Interfraternity Council Orphan Fund: This loan fund was provided by The American University Interfraternity Council beginning in 1961. Recipients must be male orphans under twenty-one years of age. There is no interest charge on repayment.

Willett M. Kempton Loan Fund: These loans are awarded to full-time graduate or undergraduate students in the School of Communication. The interest rate is 4% per annum.

Kogod College of Business Administration Student Loan Fund: The loan fund was established to help part-time or full-time undergraduate and graduate students who are enrolled and are in good standing in the Kogod College of Business Administration. Terms of the loan include a 5% rate of interest which will accrue on receipt of the loan. Repayment begins six months after graduation. This loan may be applied for in the Office of Financial Aid.

Ida Letts Educational Loan Fund: This fund helps young men whose financial condition makes support necessary while enrolled as full-time undergraduates. The

loan cannot be granted to students during their first semester. The interest rate is 2% per annum while the recipient is enrolled full-time and 4% per annum after enrollment at The American University ceases.

Long Loan Fund: This loan was designed for the daughters of United Methodist ministers in the College of Arts and Sciences. The interest rate is 4% per annum.

Anna Mary Mann Memorial Loan Fund: These funds are restricted to women in the Kogod College of Business Administration and the School of International Service. The interest rate is 4% per annum.

William Hill McKenzie Loan Fund: This fund was established in September 1968 in memory of William Hill McKenzie IV, who died in March 1968 and was awarded a Bachelor of Arts degree posthumously in June 1968. It provides emergency assistance to full-time, married seniors at The American University. Four percent interest accrues from the date the loan is made.

Maurice Minnick Loan Fund: These funds are designed to help married seniors meet educational costs. Loans are to be repaid after graduation without interest.

Shirley E. Minus Loan Fund: This fund is designed to aid undergraduate students in good standing at the university. The fund is especially suited to students who may not qualify for other financial aid. Three percent annual interest will accrue on the unpaid balance beginning nine months after graduation or separation from The American University.

Thomas Moore Emergency Loan Fund: This fund was established in January 1970 by Theodore and Lillian Moore as a memorial to their son Thomas, an American University sociology student killed in an automobile accident in 1969. Students may borrow up to \$50 to meet financial emergencies.

Morris Morgenstern Loan Fund: This loan was established in 1972 by the Morris Morgenstern Foundation of Long Island, New York. It is issued for no longer than one year to students in need of emergency assistance. The interest rate after the due date is 4% per annum.

Julia Olson Loan Fund: All students in need of temporary emergency assistance qualify for this loan provided they are in good academic standing. This loan is interest free.

Stanley Posner Student Emergency Loan Fund: A short-term, no-interest loan fund to assist students in emergency situations. Loans are to be repaid in thirty days and will not exceed \$50.

Real Estate Alumni Loan Fund: Established to assist needy students enrolled as real estate or finance majors or both in the Kogod College of Business Administration. First preference is given to real estate majors and to junior, senior, and graduate students. Loan amounts vary but may not exceed \$2,500 each academic year. Current interest is at 9%. Recipients are selected by a loan committee.

Roland Rice Loan Fund: Borrowers of this loan must be students who are not qualified to receive aid from other student aid sources available at the university. Interest accrues at 4% per annum. The loan must be repaid within two years after graduation.

Residence Hall Association Emergency Loan Fund: Established in 1965 by the Women Residents Association to assist women living in the residence halls. The fund was altered in 1976 to include men residing in campus hous-

ing. This is a short-term loan with a maximum award of \$50.

Bertha Roberts Loan Fund: Made possible by a bequest from the Bertha Roberts estate in 1973, the fund provides interest-free loans to young men and women preparing for Christian ministry or missionary work, or other religious positions. Interest accrues at 5% on the unpaid balance if a default occurs; otherwise the loan is interest-free.

Arletta Skinner Rudd Loan Fund: Made possible by a bequest from Arletta Skinner Rudd's estate in 1986, this fund provides financial assistance to needy full-time undergraduate students.

William M. and Rebecca Sachs Loan Fund: This emergency loan fund was created by the Sachs family in 1962 for needy full- or part-time undergraduates or graduates who have completed at least one semester in the Kogod College of Business Administration. The interest rate is 5% per annum.

Shaskan Family Loan Fund: The George and Myra Shaskan Foundation made this loan available to full-time undergraduate, graduate, or law students who demonstrate financial need. Recipients must be in their final year of study to receive this loan.

Student Confederation Loan Fund: This loan fund was established in 1975 to aid full-time undergraduates other than freshmen. The interest rate is 3%.

United States Steel Foundation Loan Fund: This fund aids full-time graduate students enrolled in the Kogod College of Business Administration. Students must be recommended by the dean. Interest accrues at 3% per annum.

Washington College of Law Dean's Loan Fund: This fund aids law students and is administered by the Washington College of Law. Interest accrues at 4% per annum. Students must apply directly to the Washington College of Law.

Washington College of Law Alumni Loan Fund: This loan is funded by alumni contributions and is usually available in the amount of \$1,000 at 7% per annum. Loan repayments begin six months after graduation. This loan is limited to seniors and other students who are in serious financial need.

Weinberg Student Loan Fund: Mr. and Mrs. J. A. Weinberg, Jr. established this loan fund in 1968 to assist students in the business school who have successfully completed one full year of study. Interest accrues at 4% beginning when the loan is made.

Grants

Athletic Grants: The Department of Sports and Recreation makes partial- to full-tuition grants based on athletic promise and ability. Students interested in being considered for these renewable grants should call or write the coach of the sport in which they excel.

Residence Hall Advisers: Students selected to serve as hall advisers receive partial tuition remission, a single room, and a monthly stipend for nine months. Interested students should call or write the Office of Residential Life in late fall to begin the application process. Selection is made in the spring for placement the following academic year. Available only to juniors, seniors, and graduate students.

United Methodist Grant: Full-time undergraduate degree students who are the dependent children of ordained

United Methodist ministers appointed by a bishop to full-time, active service in the church may apply to have one-half of their tuition remitted. There will be no remission of tuition for ordained United Methodist ministers' children who are attending the university part-time or who attend during the summer sessions. These grants are contingent on available funding. Inquiries about this grant program should be directed to the Center for Campus Ministries in the Kay Spiritual Life Center.

Other Denominations Grant: Full-time undergraduate students who are the dependent children of other ordained ministers or rabbis may apply to receive tuition remission of \$200 per year, \$100 each for the fall and spring semesters, contingent on available funding. In order to claim these benefits the minister or rabbi must be active on a full-time basis in the ministry of his or her denomination.

Clergy Grant: Full-time, active clergy may apply to the Center for Campus Ministries to receive a discount of 20% of the cost of their first three-credit hour course at the university, contingent on available funding.

University Grant Program: Full-time undergraduate degree students who demonstrate a need for assistance may apply. Amount is based on need. The maximum annual grant is one-half tuition. Requires filing of the Financial Aid Form. Awards made as long as funds are available.

Tuition Exchange

The American University is one of more than 160 colleges and universities that participate in the Tuition Exchange Program for faculty and staff members. Students whose parents are employed by one of the participating institutions may be eligible for a Tuition Exchange Scholarship. Further information may be obtained from the Tuition Exchange Officer of the participating college or by writing the Office of Staff Personnel Services at The American University.

Tuition Remission for Faculty and Staff Members: Full-time faculty and staff members may register without payment of tuition for up to six credit hours during any semester of the academic year for a total of six free courses each year. A nonrefundable processing fee of \$50 for each student is assessed each term.

Undergraduate University Scholarships

Honor Scholarships: The Office of Financial Aid selects freshmen for Honor Scholarships of varying amounts. Selection is based solely on merit, although additional aid based on financial need may be offered. Students who meet the established criteria are notified shortly after admission. These awards are renewable for a total of eight semesters provided the student makes satisfactory progress toward the degree (measured both through the cumulative grade point average and the completion of fifteen credit hours each semester, thirty credit hours each academic year).

Frederick Douglass Scholarships: Minority students who are full-time undergraduates and U.S. citizens or permanent residents are eligible for a Frederick Douglass Scholarship. First preference is given to graduates of Washington D.C. metropolitan area high schools, then to graduates of other high schools in the nation. Academic achievement and financial need must be demonstrated. The awards range from partial to full tuition and are based on financial need. (Each year a limited number of awards

exclusive of financial need are made to outstanding applicants.) Incoming students must complete an application for admission to a degree program at the university by February 1, 1992. A completed 1992-1993 Financial Aid Form must also be received. For more detailed information students may call or write the Office of Minority Affairs at (202) 885-1270.

American University Merit Scholarships: The American University sponsors a number of merit scholarships under the National Merit Scholarship Corporation's Merit Scholarship Program. National Merit finalists who indicate to the National Merit Scholarship Corporation that The American University is their first choice university are offered the scholarship. The awards are renewable and amounts vary. Semifinalists in the National Achievement Program for Outstanding Negro Students and in the National Hispanic Scholarship Program are also considered for a number of merit awards based on academic achievement.

Restricted Scholarships

The university has a limited number of scholarships that are funded either annually or through endowment by gifts from private donors. Applicants for financial aid are routinely reviewed by the Financial Aid Office for eligibility for these scholarships.

Normally, recipients must demonstrate financial need, maintain a cumulative grade point average of 3.00 and meet specific donor criteria. All restricted scholarships are administered by the Office of Financial Aid unless otherwise noted.

Ernest M. Aiken Scholarship: The Aiken Scholarship was established in 1961 by Mr. Hermenia Aiken to assist international students. Candidates should write to the director of International-Intercultural Student Services for consideration.

Walter and Sarah Alexander Scholarship: This scholarship was established in 1927 by the children of Walter and Sarah Alexander. Recipients must be residents of Wisconsin.

Hurst R. and Marian P. Anderson Scholarship Fund: This scholarship was funded in 1967 by the Andersons to aid needy students from the Washington, D.C., area.

Baer Memorial Scholarship: This fund was established in 1937 by Emma Baer to aid needy students from Pennsylvania.

Bausel Memorial Scholarship: This fund was established in 1962 through a grant from the estate of Helen Bausel for students who demonstrate academic excellence.

John and Mabel Becker Scholarship: This scholarship is awarded to a male student with an excellent academic record.

Dorothy and Jack Bender Scholarship: This scholarship was endowed in 1976 by Morton Bender, in memory of his parents. The award is available to a full-time freshman who shows financial need and academic achievement.

Lucius and Grace Bennett Scholarship: This scholarship was established in 1944 by the estate of Grace Bennett to assist a male student from Logan County, Ohio.

Leo M. Bernstein and David I. Estrin Scholarship: This fund was established by Wilma and Stuart Bernstein in

honor of their fathers. Students in the Kogod College of Business Administration are eligible.

Borden Parker Bowne Scholarship: This fund was provided by the estate of Ida C. Morrison for students in the philosophy department.

Joseph A. Britton Scholarship: The Britton Scholarship was established in 1982 by the family of Joseph Britton, who graduated in 1938 from the College of Arts and Sciences at The American University. The recipient of this award must exhibit excellence in academics as well as athletics.

L.E. and L.J. Brown Scholarship: Funded in 1947 by the estate of Lucy J. Brown to help students preparing for the ministry.

Abbey Joel Butler Scholarship: This scholarship is made available by Mr. Abbey Joel Butler, president of C.B. Equities. Awards are made annually to a Kogod College of Business Administration freshman who demonstrates outstanding academic merit and financial need. Priority is given to students from the New York City metropolitan area.

C&P Telephone Scholarship: The C&P scholarship was established as an annual gift fund in 1978 to assist a high school graduate and resident of the District of Columbia who is enrolled full-time and has financial need.

Laura Belle Campbell Scholarship: This award was funded in 1955 by the estate of Laura Belle Campbell to aid students preparing for the ministry.

Central High School Alumni Scholarship: This scholarship was funded by the Central High School alumni in 1984 to aid deserving undergraduate students.

James Edward Miller Chapman Scholarship: This \$1,000 scholarship is available annually to an undergraduate student who is a resident of the District of Columbia and who is majoring in business or economics. This scholarship was established by the Chapman Education Foundation in 1984.

Grace L. Chavis-Butler Scholarship: Established in 1990 to support undergraduate scholarships for black and minority students.

Benson T. Chertok Scholarship: This fund is awarded to an outstanding American University science student in honor of Benson T. Chertok for his work in nuclear physics.

George C. and Louise E. Clark Scholarship: George C. Clark established this scholarship in 1959 for outstanding students with financial need.

The Cochran Memorial Fund: This fund was established in 1956 by the estate of Mary E. Cochran to aid students preparing for the ministry.

Comiteau Family Scholarship: Awarded to academically outstanding needy freshman from the New York City metropolitan area. Preference is given to students involved in community service during high school. This scholarship was established in 1990 by Joel Comiteau.

Wade Cooper Scholarship: The estate of Wade Cooper provides funds to award to qualified students with financial need.

Cora and John H. Davis Foundation Scholarship: The Davis Foundation provides several scholarships annually to assist needy students. These scholarships were established in 1983.

Joseph Dawson Scholarship: Funded in 1955 by the estate of Margaret Y. Dawson, this scholarship assists chil-

dren of ministers of the Baltimore Conference of the Methodist Church.

Charles H. and Iva N. Dean Scholarship: Started in 1947 by the estate of Iva N. Dean, this scholarship is designated to assist preministerial students.

Rev. Charles and Dora DeLong Scholarship: This award was established in honor of Rev. and Mrs. DeLong by Mr. and Mrs. J. Dennett Guthrie to aid qualified students enrolled in the School of International Service.

Nancy Devor Scholarship: Awarded to students enrolled in the School of Public Affairs, this scholarship is funded by a 1910 endowment from the estate of Nancy Barnes Devor.

Michael Forman Scholarship: This scholarship was established in 1984 to aid undergraduate students majoring in Communication, Visual Media, Literature, or Cinema Studies.

Hymen Goldman Scholarship Fund: This fund was established in 1968 by the Aaron and Cecile Goldman Foundation to award deserving and needy students from the Washington metropolitan area. Interested students should contact the Kogod College of Business Administration.

Everett and Marian Gordon Scholarships: This scholarship fund established in 1976 by Everett and Marian Gordon to assist Jewish Studies majors in the completion of their senior theses. Selection is made by the Jewish Studies Program.

Arabella Griffin Scholarship: This endowed fund was established in 1920 by the Rev. and Mrs. Charles Griffin for outstanding students from any college or school in the university.

Ernest S. Griffith Scholarship: This scholarship was established in 1965 to aid students enrolled in the School of International Service.

Guttman Foundation Scholarship: Established by the Stella and Charles Guttman Foundation, this fund aids students with proven academic excellence.

Annie G. Hall Scholarship: Awarded to students preparing for the ministry, this scholarship is financed through a fund established in 1942 by Annie G. Hall.

The C.E. Hammond Scholarship Fund: Established in 1927 by the estate of C.E. Hammond, this fund assists students preparing for the ministry.

Milton Harris Scholarships: The Office of Financial Aid in cooperation with the Department of Chemistry selects a varying number of deserving undergraduate students annually to receive the Milton Harris Scholarship.

The E. Haskell Scholarship: The estate of E. Haskell provides funds to aid preministerial students.

William Randolph Hearst Minority Scholarship: The Hearst Foundation established an endowment fund in 1986 to support a scholarship program with preference for minority undergraduates. Recipients are chosen based on academic achievement, motivation, and financial need.

Hechinger Foundation Scholarship: The Hechinger Foundation established in 1983 an endowed scholarship fund, the income of which is awarded on an annual basis. First preference is given to black undergraduate students from the District of Columbia who are majoring in business.

The Helene M. Herzburn Art Scholarship Fund: Dr. Philip Herzburn established an endowed scholarship fund in 1984 in memory of his wife Helene, a former member of

the university's art faculty. The scholarship is awarded to undergraduate students with financial need majoring in art. Selections are made in cooperation with the Department of Art.

Ludwig Maximilian Homberger Scholarship: This scholarship was funded in 1982 by the estate of Elizabeth B. Homberger in memory of her husband, a former American University professor. It was established to assist needy German exchange students pursuing study at The American University.

Bruce Hughes Scholarship: This scholarship is awarded to outstanding students through a 1917 gift from the estate of the Rev. Bruce Hughes.

Hyman Scholarship: Established in 1956 by the estate of Emma Hyman, this scholarship aids students preparing for the ministry.

Catherine Letts Jones Scholarship: Established in 1964 by B. Jones, this scholarship assists women who are native-born Americans.

Jack Jurey Memorial Scholarship: This fund was begun in 1970 by Mrs. Jack Jurey. The recipient must be a junior, senior, or graduate student pursuing a career in broadcast journalism. Selections are made through the School of Communication.

Adam and Samuel Karsch Memorial Scholarships: Established in 1991, these scholarships, funded by Mr. and Mrs. Mark Karsch, each assist a business student from the New York City area who is academically qualified.

Robert F. Kennedy Memorial Scholarship: The fund was established in April of 1969 to provide scholarships to international students.

Adnan Khashoggi Scholarship: The Adnan Khashoggi Scholarship was established in 1983 by Adnan M. Khashoggi. A scholarship is awarded annually to an outstanding undergraduate who demonstrates substantial financial need.

Hugh and Maggie Legge Scholarship: Funded by Hugh Legge in 1937, this scholarship aids students from Kent Island in Queen Anne's County, Maryland.

Catherine Letts Scholarship: Provides funds for legal residents of Iowa.

Minnie Letts Scholarship: Provides funds for an outstanding resident of Kansas.

Mary and Daniel Loughran Scholarship: This scholarship is awarded to four students from each class who have demonstrated academic excellence, leadership, and service to the university community. The fund was established in 1976 by a grant from the Mary and Daniel Loughran Foundation.

John H. and Nannie C. Lucas Scholarship: Established in 1928 by Nannie Lucas, this scholarship aids residents of Missouri.

Frank J. Luchs Memorial Scholarship: This scholarship is awarded by the Kodog College of Business Administration to students pursuing a career in real estate or business administration.

Samuel J. Moritz Scholarship: Established in 1961 by the estate of Samuel Moritz, this fund assists students in the School of International Service.

Charlotte W. Newcombe Foundation Scholarship: The Charlotte W. Newcombe Foundation made its first annual gift to The American University in 1981 to fund scholarships for mature second-career women students attending

full- or part-time. Students should have completed half the credits necessary for their bachelor's degree before applying for the fund.

Charles A. Norwood Memorial Scholarship: Aids students who are legal residents of Maryland.

Opdyke Memorial Scholarship: The Opdyke Memorial Scholarship was established in 1931 through the estate of Dorothy Opdyke. Awards are made to women preparing for foreign missionary service.

Miriam Ottenberg Memorial Scholarship Fund: The generosity of various donors to a fund in memory of Miriam Ottenberg, a former reporter for *The Washington Star*, has made this fund available to needy students. Preference is given to those majoring in Print Journalism.

Willis L. Overdeer Scholarship: Established by the estate of Willis L. Overdeer, this scholarship provides assistance to students from Delaware preparing for the United Methodist ministry.

Carrie Oves Scholarship: Awards are presented to students with financial need from any college or school of the university.

George and Thelma Paraskevaides Foundation Scholarship Fund: Established in the fall of 1985, this scholarship provides assistance to students from Cyprus pursuing undergraduate studies in the humanities and social sciences. Recipients must be in high academic standing and show financial need.

Charles Coolidge Parlin Scholarship: This scholarship was established in memory of Charles Parlin, a past member of the Board of Trustees at The American University, through a gift by the Celanese Corporation. Students who demonstrate leadership qualities and academic excellence are considered for this scholarship.

Albert Pike Scholarship: This scholarship is funded by the Scottish Rite of the Southern Jurisdiction and is awarded to students enrolled in the School of International Service who plan to serve in a government position after graduation.

Pittman Potter Award: Awarded to students in the School of International Service.

Marion F. Purcell Memorial Scholarship: This scholarship was initiated in 1968 by Francis D. Purcell to honor his wife, who was employed at The American University. This scholarship is awarded to a student in the School of International Service who demonstrates compassion and understanding to others.

The Ramsey Memorial Scholarship: This scholarship was established in 1941 by the Ramsey estate "for the education of ministers of the gospel of Jesus Christ."

Ethel Ridgaway Scholarship: In 1978, 10% of the estate of Ethel Ridgaway was donated to assist qualified students preparing for the ministry.

Effie Ritchie Scholarship: A scholarship fund from the estate of Effie Ritchie was established to assist qualified students preparing for the ministry.

Jack B. Sacks Scholarship: Awarded to a deserving student for academic achievement in the field of advertising or marketing.

Karim Said Foundation Scholarship: The Karim Said Foundation supports an annual scholarship for two graduate students from the Arab world majoring in Computer Science or Technology of Management who intend to re-

turn to their countries. The award may be used for tuition, room and board, and travel.

Scher Family Scholarship: Established in 1989, is available to juniors majoring in communication who demonstrate financial need.

Minnie Smith Scholarship: Presented to qualified students from any college or school of the university.

Solon E. Summerfield Scholarship: In 1982, the Summerfield Foundation established an endowed scholarship fund to aid deserving undergraduate students.

Joel and Leona Tall Scholarship: In honor of their fiftieth wedding anniversary, a scholarship was initiated in the name of Joel and Leona Tall, residents of the District of Columbia. The scholarship is intended to help young writers in the areas of literature and journalism.

Theological Seminary Scholarship: Intended for full-time undergraduates who wish to pursue theological studies at the Wesley Theological Seminary after graduation from The American University.

George W. Townsend Scholarship: Established in 1928 by George Townsend, this scholarship is presented to qualified students preparing for the ministry.

Jayne Valecce-Sulmonetti Scholarship: Provides funds to a needy student employed by the office of Financial Aid.

The Warner Wolf Scholarship: This scholarship was established in 1986 by Warner Wolf, sports commentator. The scholarship will be awarded to an incoming freshman from the New York City area majoring in communication who is academically outstanding and in need of financial aid.

Marjorie Fraser Webster Memorial Scholarship: This scholarship established in 1977 to memorialize the founder and president of Marjorie Webster Junior College, Marjorie F. Webster. The college had a close relationship with The American University while in existence. The scholarship is designed to assist junior or senior women who have financial need and meet the university's academic requirements.

Donald Weiss Family Scholarship: This scholarship was established by the Donald Weiss family in honor of their son, Peter, to be awarded to a disabled student.

Women's Guild of The American University Scholarship: The Women's Guild of The American University provides a scholarship to a senior female student in the College of Arts and Sciences. The student must have attended The American University all four years and must show excellence in academics.

George Woods Scholarship: This scholarship is funded by a gift from Margaret P. Woods and awards are made to qualified students from any college or school of the university.

Graduate Financial Aid

Merit-Based Awards

Teaching Unit and Administrative Awards

Teaching unit awards usually involve assisting members of the faculty in their research or teaching. The awards are made by the teaching units according to their own criteria.

Fellowships provide a stipend and from nine to twenty-four hours of tuition remission. There is a service commitment of up to twenty hours each week during each semester.

Assistantships provide from nine to twenty-four hours of tuition remission during the academic year and require a service commitment of up to ten hours each week during each semester. The specific amount of the service requirement is determined by the size of the award and the nature of the service provided. Summer fellowships are available through the teaching units.

Administrative awards involve work in a variety of university offices and programs, including Student Life, the Computing Center, and the Washington Semester Program. Potential recipients are nominated by the teaching units and final selections are made by the heads of the administrative units.

Graduate Honor Awards

Academic merit and achievement are the principal criteria for selection. Nominations for these awards are made by the teaching units. Recipients of these awards are selected by the University Graduate Honors Awards Committee.

Dean's Scholar Awards provide a \$3,000 award and a teaching unit fellowship to outstanding newly admitted doctoral students interested in pursuing a college or university teaching career.

John Fletcher Hurst Scholar Awards consist of a \$3,000 award in addition to a teaching unit fellowship that includes a stipend and tuition remission. This renewable award is initially available only to new students entering doctoral programs.

Master's Scholar Awards offer a \$1,500 award in addition to a teaching unit fellowship which includes a stipend and tuition remission. This renewable award is available to students entering master's-degree programs.

Special Opportunity Awards are fellowships and assistantships awarded to American-born minority students (African-American, Asian, or Pacific Islander American). Recipients meet service requirements in their teaching units.

Hall of Nations Scholarships provide up to eighteen hours of tuition remission during the academic year only. International students who do not have permanent resident status or U.S. citizenship are eligible to apply. There is no service requirement. The award is renewable for a second year if the recipient maintains a superior academic record.

Landmarks Graduate Fellowship in History is available to either M.A. or Ph.D. students in History with a special interest in public or museum history. Students serve half-time as an assistant to a Landmarks Assistant Professor of History and half-time as a research/exhibit assistant at the National Museum of American History (Smithsonian Institution). The stipend is \$7800 and eighteen to twenty-four hours of tuition remission is available. This fellowship includes some summer obligations.

Designated Foundation Awards

Massey Foundation Awards are available only to Canadian citizens. They provide scholarship assistance of up to \$3,000 each year without a service requirement.

United Methodist Graduate Scholarships are available to members of the United Methodist Church who have strong academic records. The award provides up to twelve credit hours of remitted tuition. There is no service requirement.

Need-Based Assistance

Some of the major sources of need-based loans are the Carl D. Perkins Loans, the Stafford Loan Program, and the Supplemental Loan to Students (SLS). These are described under "Federal Loans" in this chapter. Also available is the District of Columbia Consortium Supplemental Educational Resources Needs Program (CONSERN). (For more information, see also "Restricted University Loans" above.)

Other Sources of Financial Support

Resident Hall Advisers carry out advising and administrative duties in the university residence halls in exchange for single rooms in the residence hall, a stipend each year, and fourteen hours tuition remission a year. (See also "Grants," above)

The College Work-Study Program provides opportunities to work part-time on campus.

Students in the Cooperative Education Program receive academic credit and are paid for faculty-supervised employment. (For more information, see "Cooperative Education Program.")

Regular part-time employment is available both on and off campus. (See also "Employment Opportunities," below.)

Washington College of Law Scholarships and Grants

Special law school scholarships, established by friends of the law school and the university, provide tuition assistance for full-time students. For more information, call (202) 885-2668.

Employment Opportunities

The university Career Center provides assistance to students interested in obtaining employment to defray a portion of their college expenses.

On-Campus Part-Time and Temporary Employment: There are on-campus jobs available at the university. Students who have been awarded federal financial aid must obtain the approval of the Office of Financial Aid before beginning work.

Off-Campus Part-Time and Temporary Employment: A variety of part-time and temporary positions are available in the nearby area and in downtown Washington.

Veterans' Benefits

The American University's degree programs are approved by the Educational Institution Licensure Commission, the state approving agency for the District of Columbia for enrollment of veterans (and eligible dependents of deceased or disabled veterans) for educational benefits under the various federal laws relating to veterans.

Forms and information may be requested from the Office of the Registrar at (202) 885-2235.

New Students

New students entering The American University must file a Veterans Application for VA Educational Benefits (22-1990) with a certified copy of DD-214 through the Office of the Registrar. Enrollment certification is then sent to the Veterans Administration by the Office of the Registrar to initiate benefits for the enrollment period.

Service men and women wishing to receive VA benefits for the first time must present the Serviceman's Application for VA Educational Benefits (22-1990). This form must be signed by the Education Office and the Commanding Officer.

Transfer students who have received VA educational benefits at another college or place of training and wish to receive VA benefits for the first time at The American University should file a Request for Change of Program or Place of Training (22-1995) through the Office of the Registrar. This form will then be sent to the VA's regional office in Washington, D.C. with the Enrollment Certification (22-1999) completed by the university.

Continuing Students

Continuing students need only file The American University VA claim card for educational benefits each semester with the Office of the Registrar. All changes in registration (adds, drops, and withdrawals) must be reported to the Office of the Registrar, Veterans' Counselor.

Payment and Financial Responsibility

With the exception of disabled veterans who are training under Vocational Rehabilitation, all beneficiaries of educational benefits from the VA are personally responsible for the payment of their bills to the university. These persons should come to the university financially prepared to pay tuition and fees. The VA checks for educational benefits are sent directly to the student or address designated on The American University claim card. Students who wish to receive advance payment must file an advance payment request form. Students who request and are granted advance payment pick up only the first check issued through the Office of the Registrar, Veterans' Counselor. Thereafter, the checks are sent directly to the student or address on file with the VA. It takes six to eight weeks from the time of filing a veterans semester claim card with the Office of the Registrar before the first check arrives. Veterans whose claim cards are completely filled in will have their claims processed first. Incomplete claim cards (e.g., no file/claim number) will be processed last.

The Veterans Administration interprets "completion of credits" differently from the university, and this difference should be noted. VA benefits are awarded on the basis of

the expected completion of a certain number of credits each semester as stated on the Veteran's Certification Form. Completion is defined to mean grades of A, B, C, D, F, P, or ZF. However, veterans who drop below the anticipated level by receiving a W, L, or N will be in overpayment status, according to the Veterans Administration. Future benefits will be reduced for later periods of enrollment or, should no further enrollment occur, students would have to refund money directly to the Veterans Administration. The VA directs the university to notify them of a change in status for students during or immediately after the end of the month in which the change occurs. Thus, when the Office of the Registrar learns in the third or fourth week of

May that a veteran has reduced his or her credit hours of enrollment because of withdrawals, audits, or no grade reported, it notifies the VA immediately after the end of May (in early June). Under mitigating circumstances exceptions to the above policies may be made through the Veterans Administration Regional Office.

The Office of the Registrar is located on the second floor of the Asbury Building, and is open from 9:00 a.m. to 5:00 p.m., Monday through Friday. While every effort has been made to provide accurate and completed information, changes in federal regulations and university policy may occur at any time without notice, and students should use this material as a general guide.





Student Life

Division of Student Life

Serving students' needs in support of their academic endeavors, the Division of Student Life offers a variety of programs from psychological, learning, and health services to student government and international programs. The division is headed by the Vice Provost for Student Life, assisted by the Dean of Students and the Director of Student Services and provides cocurricular benefits to all American University students. The Division of Student Life recognizes that a student's college experience needs to be supported and nurtured by people and events inside and outside the classroom. Thus, it is the mission of its staff members to provide the academic, emotional, cultural, spiritual, and social support to ensure student success.

In one way or another every American University student is served by the activities sponsored by the division. Departments and services include:

- Center for Psychological and Learning Services
- Child Development Center
- Judicial Programs
- Kay Spiritual Life Center
- Office of International-Intercultural Student Services
- Office of Minority Affairs
- Office of Residential Life
- Office of Student Activities
 - Center for Student Volunteerism and Community Service
 - Office of Disability Services
 - Information and Off-Campus Housing Resource Center
 - Greek Affairs
 - Orientation and Parent Programs
- Student Health Center

- Student Health Insurance Plan
- In addition, there are numerous student government organizations, campus media, honor societies, and special interest groups.

The Title IX Officer for students is available through the Division of Student Life. For more information, consult the *Student Handbook* or call (202) 885-3310.

Center for Psychological and Learning Services

The Center for Psychological and Learning Services provides opportunities for help with one's personal and academic concerns. Students may receive counseling and assistance in a variety of areas.

Psychological Services

Group and individual counseling, intake, referral, and assistance in a crisis are services available through Psychological Services. In addition, the staff offers workshops on issues related to personal growth and social skills. A stress-management program designed to help students develop effective coping strategies is offered each semester for undergraduate and graduate students.

The psychological services staff is composed of clinical and counseling psychologists and social workers who are experienced in working with college students. All discussions are confidential in conformity with federal and local law.

The Center for Psychological and Learning Services is the site for information regarding the national tests such as the CLEP, GRE, LSAT, and MAT.

Learning Services

Learning Services offers individual and group assistance for improving learning skills important to academic success in college. Workshops and sessions with counselors are available in areas such as writing and study skills, grammar, critical reading, vocabulary, time management,

the English Competency Examination, speed reading, notetaking, examination skills, and reading comprehension. Learning services are available free to full-time students and to part-time students on a space available basis.

Learning-disabled students may receive academic support from the center. More specific help is available to those freshmen admitted to the Learning Services Program. (A fee is required. Consult Learning Services for more information on this program.)

The Center also provides referral to qualified peer tutors (who charge reasonable fees) for many courses taught at The American University.

The Center for Psychological and Learning Services is located in Mary Graydon Center 201, (202) 885-3360.

Child Development Center

The American University offers an innovative educational program for members of the university community. The Child Development Center in Hughes Hall provides a stimulating atmosphere for children between 2½ and 6 years old. Children are enrolled in a full-day or part-time program.

The center offers students from all disciplines a place to observe, create, and test theories. It serves as a laboratory for students majoring in education, psychology, sociology, literature, the performing arts, or communication. The center also offers work-study experience to undergraduates interested in child development and family life.

Judicial Programs

The Division of Student Life, through the Office of the Dean of Students, provides the university community with two judicial boards, the Hearing Board and the Board of Examiners (appeals level). These two Conduct Council bodies handle all nonacademic grievances resulting from alleged violation of the Rights and Responsibilities, the Code of Conduct (see "Code of Conduct"), and the Regulations for Student Conduct in the Residence Hall. Sixty percent of the membership of the Conduct Council is made up of students, twenty percent is faculty and twenty percent is staff. The Hearing Board is charged with the tasks of hearing a complaint against a student, arriving at findings about the incident and recommending sanctions. The Board of Examiners (BOE), upon the request of the respondent, reviews the Conduct Council hearing and either grants or denies the review request.

In the residence halls there is an alternative to the Conduct Council for certain violations of university regulations. The Administrative Judicial Action (AJA) provides a quick, informal, and individual administrative procedure instituted by a professional Residential Life staff member when the student acknowledges responsibility for the behavior.

Service on the Conduct Council provides a valuable experiential learning situation for all students. The American University Conduct Council is founded on the values of equity, due process, and education. Both the Conduct Council and Administrative Judicial Action files are kept on record as confidential disciplinary actions in the Office

of the Dean of Students in accordance with federal law and university policy concerning student records.

Kay Spiritual Life Center

The round building at the north end of the quad—The Kay Spiritual Life Center—is an interfaith house of worship and home to a rich array of faith communities, cultural and educational programs, student organizations, feasts, festivals, and circles of prayer and activism.

In keeping with the university's commitments to inquiry and diversity, the center seeks to be not only a haven for the religious and a refuge for the weary, but a crossroads where people of conscience, intellect, and spiritual curiosity find a place for their questions, their dreams, and their struggles. The center seeks to foster a climate of interfaith understanding and openness in which matters of faith and value are recognized as an integral part of human growth and of university life.

Regular services of worship and religious observances are held throughout the year by Buddhist, Catholic, Jewish, Muslim, Protestant, and Vedle/Hindu communities. In addition, the center sponsors special interfaith celebrations as well as a host of workshops, panels, retreats, outings, and social-action opportunities. Student organizations involved in the work of the center include Amnesty International, AU Gospel Choir, Baptist Student Fellowship, B'Nai B'rith/Hillel Foundation, Catholic Law Student Association, Catholic Student Association, Christian Fellowship, Christian Science Organization, Habitat for Humanity, Hunger Action, Jewish Student Association, Lutheran Student Association, Methodist Student Fellowship, Muslim Student Association, Presbyterian Fellowship, Protestant Student Council, Protestant Worshipping Community, and United Campuses to Prevent Nuclear War.

Chaplains from the diverse faith traditions assist in organized events and are available to students, faculty, and staff for religious counseling, spiritual direction, programming, advisement on issues of faith and ethics, residence hall programs, weddings, bat and bar mitzvahs, memorial services, and personal support. Kay Center office hours are from 9:00 a.m. to 5:00 p.m. Monday through Friday, telephone (202) 885-3320.

Office of International-Intercultural Student Services

One of The American University's distinctive educational characteristics is its cosmopolitan and multicultural campus population: more than 11,000 students from 128 countries, including students from all fifty of the United States, are currently enrolled. This cultural and international diversity of the university community provides students with the opportunity to explore political, economic, environmental, and social perspectives with others who, in the near future, will likely be some of the decision makers for the world's businesses and governments. To take advantage of this unique educational resource, the Office of International-Intercultural Student Services (OISS) promotes intercultural programs, provides cross-cultural ad-

vising, and shares responsibility for monitoring university policy, programs, and services to ensure the vitality of The American University's cultural diversity.

OIS seeks to develop awareness, understanding, and appreciation of cultural differences within the university community. Primary support services, which use the resources of the nation's capital and the university's diverse administrative and academic resources, include providing cultural adjustment assistance, pre-arrival, initial entry, and on-going orientation, and advising about academic, personal, social, cultural, career, and employment matters. OIS provides comprehensive orientation programs each fall and spring semester for international students. In addition, OIS sponsors a unique one day orientation each fall semester for those students who have lived and studied a significant part of their developmental years outside their country of citizenship as dependents of either business, foreign service, international agency, military, or missionary parents. In addition, OIS is a principal cosponsor of the university's Cross-Cultural Colloquium Series. This colloquium series brings to campus distinguished scholars, educators, and researchers with specialized knowledge and skills relevant to communicating effectively across cultures.

OIS is also the university's administrative unit authorized by the U.S. Immigration and Naturalization Service (INS) and U.S. Information Agency (USIA) to issue and sign the nonimmigrant documentation required of foreign/international students, foreign scholars, exchange visitors, and foreign temporary workers of distinguished merit and ability.

The Office of International-Intercultural Student Services is located in the Butler Pavilion, room 408; telephone, (202) 885-3340 fax (202) 885-3354. Office Hours are Monday through Friday, 9:00 a.m. to 5:00 p.m. Refer to the *Schedule of Classes* for extended hours of operation during "Extended Hours" and "Late" registration periods.

Office of Minority Affairs

The Office of Minority Affairs assists all minority students entering the university by providing counseling and tutoring services to encourage academic success. The cultural interests of the minority community are served through a series of lectures, seminars, historical tours, receptions, award ceremonies, and festive events. The Office of Minority Affairs has a small library containing historical and cultural materials as well as career information for undergraduate and graduate students. The Frederick Douglass Scholarship Program and the High School College Internship Program (HII/SCIP) are housed within this unit.

The Office of Minority Affairs is located in the Butler Pavilion, room 404; telephone (202) 885-1250.

Office of Residential Life

Living on campus is a unique and rewarding experience. At The American University, learning in the classroom is extended into the residence halls through special interest housing such as the Living-Learning Center, Honors Floor, and the Intercultural Residence Hall; and through floor

and hall programs, such as talks by faculty members and workshops by the Learning Services staff. Upperclass and graduate students are specially selected as resident assistants (RAs) to ensure that the atmosphere on each floor is open, friendly, and supportive. RAs receive extensive training in listening, program planning, cross-cultural communication, advising, and dispute resolution. They organize floor participation in social gatherings, academic programs, and cultural events both on and off campus. Each residence hall is directed by a live-in full-time professional resident director. These professionals hold advance degrees in counseling, educational administration, and other related fields.

The American University offers housing in ten residence halls to more than 3,300 undergraduate men and women. Most rooms are doubles, accommodating two students. A very limited number of singles are available to upperclass students at a higher cost. Most halls offer both single-sex and co-ed floors or wings.

The Living-Learning Center floor is available for selected students. A focus on community development, community action, and volunteer activities is provided through the center. The College of Arts and Sciences administers the center and should be consulted for further information about the program.

The Intercultural Residence Hall provides residents with an intercultural and international living environment. Students are encouraged to share their particular backgrounds as well as to learn about the cultures, languages, and religions of the other residents.

Space in university residence halls is offered first to full-time undergraduate students as available. Limited space may be provided for graduate, law, and part-time undergraduate students when available. Students in all these categories should consult the Office of Housing Management for assignment information. The housing agreement is binding for a full academic year (fall and spring semesters). Room rates are listed in the "Tuition, Expenses, and Financial Aid" chapter of this publication. Health-insurance coverage is a prerequisite for on-campus residence.

Housing information and application cards for entering students are included in the admissions packet. Returning students are given the opportunity during the spring semester to apply for space. A room deposit is collected each year when availability of space for the students is confirmed. This deposit is then applied to the student's spring-semester account.

Rooms contain basic furnishings. Electrical equipment permitted in residence-hall rooms is limited to low-wattage appliances. Kitchen facilities are available on each floor. Students may not cook in their rooms.

On the main campus each residence hall has a twenty-four hour front-desk operation that serves as the hall information center and oversees access to the hall. Resident students must observe all university regulations, including those specified in the housing agreement that they (and their parents, if students are under age eighteen) sign and those found in the *Student Handbook*. They are held responsible for damage to their rooms and floors during their period of occupancy and are billed, either individually or with roommates, suitmates, or hallmates for damage. The residence halls close completely during the period between

fall and spring semesters. Freshmen, sophomores, Nebraska Hall and Tenley Campus residents are prohibited from having motor vehicles on campus.

Refunds for students withdrawing from housing are made in accordance with the schedule contained in the housing agreement.

The Office of Residential Life is located in Mary Graydon Center 200, (202) 885-3370. The Office of Housing Management is in McDowell Hall 4, (202) 885-2599.

Office of Student Activities

The Office of Student Activities provides programs and services in several areas designed to enhance the personal, social, and intellectual growth of students. Among these are the Center for Student Volunteerism and Community Service, Office of Disability Services, the Information and Off-Campus Housing Resource Office, Greek Affairs, and Orientation and Parent Programs.

Members of the staff serve as the primary advisers to the Student Confederation, the Confederation Media Commission, the Graduate Student Council, the Student Union Board, and the Kennedy Political Union. The staff also provides leadership training and skills development throughout the year with a series of workshops, retreats, and seminars. A leadership library is also available.

The office also initiates, administers, and interprets university policies and procedures affecting student groups including the following: student events in the Tavern; recognition of new student organizations; noise and sound standards for activities; facilities use and requests; funding and purchasing for student organizations; and freedom of expression. The Office of Student Activities is located in the Mary Graydon Center, room 220; (202) 885-3390.

Center for Student Volunteerism and Community Service

Community service is an important aspect of education at The American University. To assist students in identifying appropriate service-learning opportunities, the university provides a Center for Student Volunteerism and Community Service. The center serves as a clearinghouse for community and campus volunteer opportunities.

The center also oversees a special tutoring program at Lincoln Junior High, a multicultural school in the Adams-Morgan area. The American University students accepted into this program may receive a \$1,000 tuition remission applicable to the following semester. The center also coordinates Project LIFTT (Literacy Is for Today and Tomorrow), a credit bearing course which offers tutoring opportunities for students interested in working with elementary school children.

Other activities of the center include the Volunteer Fair, a drug awareness program, literacy volunteers for members of the university community who may need special support, and periodic group service projects in the community. The center is located in the Office of Student Activities, Mary Graydon Center 220, (202) 885-3390.

Office of Disability Services

The staff of Disability Services works with persons having temporary or permanent disabilities to promote their

full participation in academic programs and campus activities. Support services, as they are required, are intended to remove competitive disadvantages so that students with disabilities may realize their own potential and objectives.

Most of The American University's educational programs are readily accessible to students with disabilities, and the university continues to take steps to eliminate barriers to participation by qualified students.

To provide adequate time for any special preparations required of the university, applicants with disabilities are encouraged to make their plans and, especially, to visit the campus as early as possible in the application process; campus tours may be arranged through the Office of Admissions. The university will treat confidentially all inquiries from applicants with disabilities. Any information voluntarily provided will in no way be used in evaluating the applicant's file for admission; it will be used only to assist the student.

Applicants who may need and be eligible for tuition benefits and auxiliary aids (such as readers and interpreters) should apply for vocational rehabilitation benefits through their home states as early as possible in making their college plans.

Accessible housing is available, both in a traditional residence hall on campus and in apartment units near the campus. The reference librarian will assist students with disabilities in using the university library, consortium libraries, and the special resources of the Library of Congress.

Preadmission inquiries may be addressed to and general information obtained from the Office of Disability Services, located off the lobby of the first floor of Mary Graydon Center. For a complete listing of available services and accessible campus buildings, please call (202) 885-3312 (voice), or for TDD (202) 885-3315. The adviser for Disability Services is Robin Deyes.

Information and Off-Campus Housing Resource Center

The Information Center is a resource center for The American University community. Services include providing information about activities on and off campus, Metro bus and rail and American University shuttle schedules, airline and Amtrak schedules, student services and campus telephone numbers and locations. The Center also acts as a resource for people looking for off campus housing. Computerized housing listings, roommate referrals, area maps and other resources are available. In addition, the office provides seminars and conferences on how to search for off campus housing and related issues. Located on the main floor, east end of Mary Graydon Center, the Information and Off-campus Housing Resource Center is open seven days a week.

Greek Affairs

The Greek Affairs staff supports the activities of the seventeen sororities and fraternities on campus as well as the Panhellenic Association (the governing body for sororities), the Interfraternity Council (the governing body for fraternities), and the Pan-Hellenic Council (the governing board for the historically Black fraternities and sororities). The American University has an active and growing Greek

community dedicated to the ideals of developing leadership and social skills, community service, friendship, and academic excellence. Approximately 23% of undergraduates belong to Greek organizations. Activities include formals, alumni/ac and parent receptions, phone-a-thons, Special Olympics, Greek Week, and other events.

Orientation and Parent Programs

SOAR (Student Orientation, Advisement, and Registration), Fall Orientation, Transfer Orientation, Adult Orientation, Graduate Orientation, and Family Weekend are several of the programs run through the Student Activities Office of Orientation and Parent Programs. The office publishes several newsletters during the summer to keep students informed about campus events and policies.

Student Health Center

Located on the first floor of Nebraska Hall, the Student Health Center is available to all full-time undergraduate, graduate, and law students. Off campus students may join the center for a \$35 fee each semester.

The center provides a variety of ambulatory outpatient medical services, most without cost, some with a modest fee. Services include primary ambulatory medical care, immunizations, allergy injections, gynecological services, and first aid. Care is provided by physicians, physician assistants, nurse practitioners, and registered nurses. Health education services are provided by all health care providers and by the Health Educator. Counseling is available to help students with diet, stress, and substance abuse problems. Patients are seen on an appointment basis. The center is open weekdays, Monday through Thursday, 8:30 a.m. to 6:00 p.m.; Friday 8:30 a.m. to 5:00 p.m. During the fall and spring semesters the hours are extended to 8:00 p.m. on Tuesday and Thursday, and there are Saturday hours, 10:00 a.m. to 2:00 p.m.

Complex medical problems and emergencies that occur when the center is closed are referred to a local hospital. In such cases, the students are responsible for the accompanying charges. For more information, call the Student Health Center at (202) 885-3380.

Required Immunizations

District of Columbia Law 3-20, Immunization of School Children, requires that all students under the age of twenty-six attending school in the District receive the following immunizations:

Polio: For each student 18 years of age until his or her 26th birthday, polio vaccine immunization is not required. If unimmunized for polio, it is recommended that the student receive two doses of enhanced potency Inactivated Polio Vaccine (e-IPV) at least six weeks apart and a third dose at least six months after the second dose. Previously administered vaccine doses of conventional IPV may be counted. A total of four doses is needed for a primary series.

Tetanus-Diphtheria: For each student 18 years of age until his or her 26th birthday who is receiving his or her primary immunization, two tetanus-diphtheria (Td) vaccine doses at least six weeks apart and a third dose at least six months after the second dose are required as follows: a) all DTP doses previously administered may be counted in the requirement; and b) if more than 10 years have elapsed since the primary series or the last booster was received, than an additional Td booster shall be required.

Measles: Two doses of measles vaccine shall be required for each student enrolled in grades 7-12 and all post high school programs, if not previously administered as follows: a) the first dose shall be administered at 12 months of age or older and been administered after 1968; b) the second dose should be given no less than one month after the first dose; and c) written certification of the second dose shall be presented to a school official upon admission to the university.

Rubella: Two doses of rubella vaccine shall be required for each student enrolled in grades 7-12 and all post high school programs, if not previously administered as follows: a) the first dose shall be administered at 12 months of age or older; b) the second dose should be given no less than one month after the first dose and c) written certification of the second dose shall be presented to a school official upon admission to the university.

Mumps: Two doses of mumps vaccine shall be required for each student enrolled in grades 7-12 and all post high school programs, if not previously administered as follows: a) the first dose shall be administered at 12 months of age or older; b) the second dose should be given no less than 1 month after the first dose; and c) written certification of the second dose shall be presented to a school official upon admission to the university.

Laboratory evidence of immunity for each vaccine preventable disease may be accepted in lieu of the required vaccination for each of the diseases described.

To comply with the law, all students should return the Physician's Report Form, which includes immunization records, to the Student Health Center upon admission to the university.

Student Health Insurance Plan

Health insurance—private, group, or the university sponsored health insurance plan—is mandatory for all students residing in university housing, for all full-time students, and for international students (except those on A, G, or H visas). Students in the mandatory categories listed above who do not waive coverage by the deadline will be billed automatically for the university sponsored plan. Detailed information concerning this plan is available in the Student Health Center, Nebraska Hall. For more information call the Student Health Insurance Coordinator at (202) 885-3380.

Student Organizations

Student Confederation

The Student Confederation (SC) is the undergraduate student government representing the academic, political, social, and cultural interests of its constituency. This confederation of organizations extends beyond the normal student governing body by including the International Student Association, The Black Student Alliance, and the Women's Forum. The General Assembly (GA), the legislative branch of the SC, is composed of the SC Executive Board as well as representatives from each residence hall, each school or college, and off-campus students. Bi-weekly meetings of the GA are held to establish policies governing SC operations, to voice opinions in regard to student concerns, and to allocate funds for use of student organizations and special projects. Elections for GA and executive positions are held during spring semester.

Three major parts of the SC are the Student Union Board (SUB), the Confederation Media Commission (CMC), and the Inter-Club Council (ICC). The SUB is the programming arm of the SC, sponsoring events including movies, concerts, comedy nights, and coffee houses. The CMC coordinates all SC-funded media and provides oversight to student publications such as *The Eagle* newspaper, *Uhuru*, "The International Voice," the *American Literary* magazine, *The Talon* yearbook, *The Rostrum*, and broadcast media such as WVAU and A-TV. The ICC oversees and funds all special-interest clubs on behalf of the SC.

Graduate Student Council

The Graduate Student Council (GSC) is the governing organization that represents the views of the graduate student community to the university. The GSC is the parent organization of twenty-two academic-unit councils throughout The American University. Through a thirty-dollar yearly activity fee, the GSC allocates funds to all twenty-two graduate departmental councils. The GSC has an Executive Council that is elected every spring. The Executive Council also organizes various other activities of interest to the graduate community such as lecture series, conferences, and social events.

Residence Hall Association

The Residence Hall Association (RHA) is a specialized student government representing all resident students. A major responsibility is social and educational programming in each hall as well as participating in campus-wide activities.

The association makes recommendations to the Office of Residential Life and Office of Housing Management concerning the operation and management of the residence hall system, and it monitors university policy as an advocate of resident students.

Intercultural Organizations

There are many intercultural student organizations that are active during each academic year. They are open to all students. Among them are the following prominent ongoing organizations:

The International Student Association (ISA) serves as the official advocate for all international students enrolled at the university. The association's goal is to assist international students in their adjustment to their new academic and social environment and to increase understanding and cooperation among international and American students. Students from geographic regions and specific countries also form clubs in order to share common interests and goals. The international student community publishes "The International Voice" bi-weekly as part of the campus newspaper, *The Eagle*.

Many of the university's national and foreign students lived outside their country of citizenship before entering college. As a result of this unique educational and living experience, these students have formed a Third Culture Students Association. The Black Student Alliance (BSA) supports the African American, African, and Caribbean student community by providing academic, cultural, and social activities. Other minority organizations include the NAACP, the Gospel Choir, and the Black Law Student Association and the Graduate and Professional Students of Color. In addition, the issues and concerns of the African American community are examined monthly by the student publication *Uhuru*.

The Jewish Student Association enriches campus life by sponsoring events, providing a support network, and discussing current issues in conjunction with Hillel.

Lectures

Many student organizations and governing boards sponsor or cosponsor speakers that enrich the academic environment. The award winning Kennedy Political Union (KPU) is the primary student lecture board for The American University. Former Senator George McGovern, rap artist KRS-1, former U.N. Ambassador Jeane Kirkpatrick, astronomer Carl Sagan, and columnist George Will have been some of the recent speakers sponsored by KPU. This organization is located in the Student Confederation office complex, Mary Graydon Center 217.

Professional, Scholarly, and Honorary Societies

At The American University select students may seek appointment to both professional and service honoraries. Among scholastic societies, membership is available in The American University chapter of Phi Kappa Phi (chartered in 1964), Who's Who Among Students in American Universities and Colleges (for outstanding junior and senior students), and Mortar Board (the national senior honor society for student leadership, scholarship, and service). Furthermore, Omicron Delta Kappa honors junior, senior, graduate, and law students in five major phases of campus life: scholarship; social, service, campus government and religious activities; athletics, journalism, speech and mass media; and creative and performing arts. Alpha Lambda Delta, a national freshman honor society, recognizes scholastic achievement. There also exist professional honoraries and academic organizations established in the fields of chemistry, premedicine, prelaw, music, economics, communication, criminal justice, journalism, history, education, public affairs and administration, business, international service, psychology, sociology, and political science.

Music

Musical groups on campus include The American University Choral, Orchestra, Singers, Pep Band, Music Society, and Gospel Choir. The American University Singers schedule concert tours in addition to their campus programs. The Department of Performing Arts also sponsors Pizzazz, a musical performing troupe. Qualified students may register for credit in most of these musical organizations.

Drama and Dance

The American University Players present classic and contemporary productions throughout the year and also schedule play readings, one-act plays, and dramatic television productions. The Department of Performing Arts sponsors annual fall and spring dance concerts and open workshops with guest artists in residence.

Political Organizations

Political organizations on campus encourage participation in local and national political activities and sponsor events attended by members of Congress, journalists, and others active in the political arena. Among the campus political organizations are the College Democrats and College Republicans. Other groups include the Women's Forum, Model United Nations, Amnesty International, and American Students Against Poverty.

Special Interest

The American University recognizes over 60 special interest clubs and organizations including such groups as the Gay and Lesbian Community, Habitat for Humanity, Outdoor Club, and the Animal Rights Organization. For a complete list of clubs and organizations or for information on how to start a club, contact the office of Student Activities, Mary Graydon Center 220, (202) 885-3390.

Student Media

Numerous opportunities exist for students interested in practical experience in the various forms of print and broadcast media. The American University is fortunate to have the following media: *The Eagle* (weekly student newspaper), *Uhuru* (the student African American newspaper), "The International Voice", the *American Literary* magazine, *The Rostrum* (economics/political science journal), the *Talony* yearbook, WVAU radio and TV; WVAU-AM & FM, and A-TV & IIRadio and TV; A-TV student television. All of these media can be contacted through the Student Confederation.

Greek Organizations

Seventeen sororities and fraternities provide service, promote scholarship, encourage leadership, and create an atmosphere for active social, philanthropic, and campus involvement. The national sorority chapters on campus are Alpha Chi Omega, Alpha Epsilon Phi, Alpha Kappa Alpha, Delta Gamma, Delta Sigma Theta, Phi Mu, Phi Sigma Sigma, and Sigma Delta Tau. Fraternities include Alpha Phi Alpha, Alpha Sigma Phi, Alpha Tau Omega, Delta Chi, Delta Tau Delta, Kappa Alpha Psi, Phi Sigma Kappa, Sigma Alpha Mu, and Zeta Beta Tau.

A Greek honor society, the Order of Omega, exists to recognize and promote leadership development and scholarship. The Interfraternity Council which governs fraternities, offers a forum for chapter discussions, provides programming to the chapters, regulates rush activities, and is an active part of the Greek community. The governing body for sororities, the Panhellenic Association, oversees and coordinates the rush program, sponsors social and philanthropic programs, hosts events pertaining to women's concerns, and represents sorority interests.

The Pan-Hellenic Council provides support and governs the activities of the predominantly Black sororities and fraternities that are active on campus.

On-Campus Services

Banking and Stores

A local bank operates a branch office and an automatic teller machine in the Butler Pavilion Promenade and another ATM in Clark Hall.

The Eagle's Nest carries food, magazines, newspapers, and toiletry items. Other stores and services in the Butler Pavilion include a copy center, mailbox service, dry cleaner, pizza restaurant, travel agent, and hair salon.

Campus Store

The campus bookstore, located on the second and third floor of the Butler Pavilion, carries all required textbooks, a large selection of other books, all necessary supplies and stationery, American University sportswear, as well as other items.

Office of Student Accounts

Following admission to the university, students handle all financial transactions with the university through the Office of Student Accounts located in Asbury Building, room 300.

Dining Services

The contract dining room, the University Club dining room (for faculty and staff), cafeteria, snack bar, tavern, carry-out, and food-vending machines are located in Mary Graydon Center. There is also a contract dining facility on the Tenley Campus. Various meal plan options are offered on a semester basis.

Mail Service

All university mail delivery is handled by Mail Services. The university maintains a full service United States Post Office contract substation, Eagle Station, on the campus. Mail boxes in each dormitory are furnished to all resident students.

Transportation and Parking

Parking on university property is by permit only from 8:00 a.m. until 5:00 p.m. Vehicles must be registered with the Parking and Traffic Office in Rockwood Building and must display a valid parking permit. All faculty, staff, and students must register their vehicles by the end of the first day of classes of the fall term. Vehicles brought to campus during the term must immediately be registered at the Office of Parking and Traffic in the Rockwood Building. Freshmen, Sophomores, Washington Semester students, and Nebraska Hall residents are not permitted to have vehicles. Visitors can park in metered parking areas or purchase a permit from the Parking and Traffic Office. Drivers on campus must observe the university's parking and speed-limit regulations, copies of which are available from the Parking and Traffic Office.

Parking spaces are provided for persons with physical disabilities. Temporary permits are available to persons having temporary disabilities. A doctor's certificate may be required. To apply for an access decal, consult the Office of Disability Services in the Mary Graydon Center, telephone (202)885-3315 (voice) or TDD (202) 885-3316.

The university is accessible by Metrobus and Metrorail. A free shuttle bus service is available to students, faculty, and staff to Tenley Campus, the Tenleytown Metrorail station, and to the Glover-Tunlaw off-campus apartments.

Career Services

The Career Center offers integrated, comprehensive career services for American University students and alumni through its career education, cooperative education, and placement programs. Career Center services are based on the philosophy that career education is a life-long effort and that students' direct interaction with employers through information sessions, interviews, and field experience is essential during the college years.

To serve students most effectively, the placement and cooperative education coordinators participate on teams that serve each college and school. Throughout the school year special programs are tailored to specific majors and professional fields. The placement coordinators are also available to talk with students about their areas of interest, direct them to appropriate resources, and help them with their job search.

The programs and services available in the Career Center include Career Resources, Career Preparation, and Placement Services.

Career Resources

Library

Job-search assistance is provided through an extensive collection of career information, including directories, books, and periodicals. Annotated bibliographies help students identify appropriate resources.

Employer Files

Hundreds of companies provide literature to help students research potential employment sites.

Career Network

Alumni and friends of the university willing to talk with students about career planning are listed by professional field, college major, and company.

Job Listings Service

The Career Center helps students support their studies by maintaining listings of part-time, temporary, and summer jobs on and off campus. Over 6,000 jobs are listed each year. Students interested in any of the part-time jobs

should inquire at the Career Center as soon as possible after arriving on campus.

Career Preparation

Workshops

The career-planning services include training workshops and materials on resume writing, interviewing, job search, and self assessment. The programs are designed to help students make a planned transition from college to work and to take full advantage of cooperative education and permanent employment opportunities.

Career Advising

Each of the major colleges and schools at the university has a placement coordinator who advises students about career development and employment issues.

Career Course

To help integrate education and career planning, the course 21.203 Career Education: You and Your Future is offered each semester through the School of Education. This is a ten-week course for students who are unsure of their majors or wish to assess their skills, values, and interests for career planning.

Information Sessions, Career Panels, and Forums

These sessions with employers give students the opportunity to learn about their own career fields and the job market in general. These programs provide access to employment opportunities in a wide variety of industries and geographic locations.

Job Fairs

In addition to the services mentioned above, Career Center staff host an annual Career Expo which brings over 200 employer representatives to the campus for an informal exchange of information. Career Center staff also play a leading role in organizing annual area events such as the Washington Area College and University Job Fair and the Washington International Trade and Association Career Day.

Placement Services

Placement Services at the American University Career Center guarantee every graduating student a link to the employment market through leads, interviews, networks, and knowledge. The services that provide this link include the following.

Placement Registration

Graduating students register for placement services. Registration information is used to advise, refer, and market these students.

On-Campus Recruitment Program

Graduating students have the opportunity to interview for permanent positions with more than 150 recruiters who come to campus each year.

On-Site Recruitment

In addition to the On-Campus Recruitment program, several hundred employers, recruiting a broad range of majors, invite graduating students to submit resumes for interviews at their organizations.

Networks

Placement coordinators develop and maintain an extensive network of employers who are in a position to offer

jobs, information, and advice to American University students.

Credentials Service

The Career Center maintains confidential reference files for students and alumni. For a nominal fee and at the registrant's request, credential packets will be sent to prospective employers.

Graduate School Information

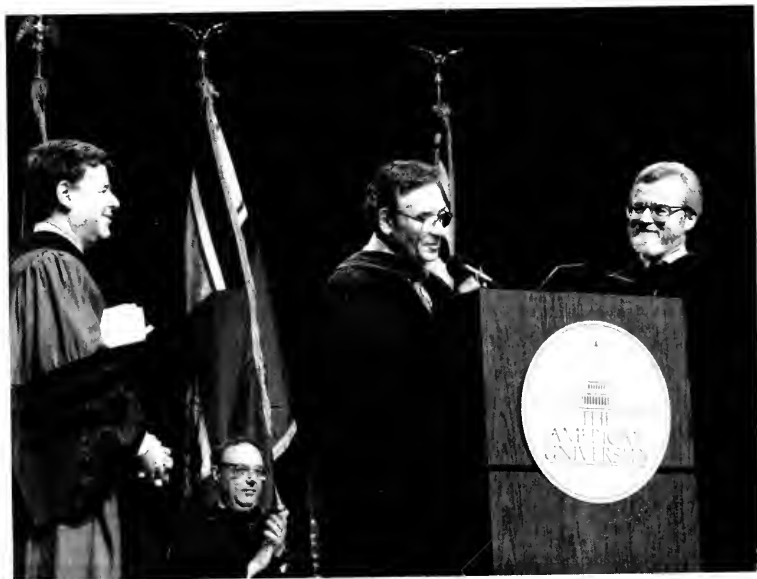
Current catalogs from a wide variety of graduate schools provide information to students considering graduate study.

Student Awards and Fellowships

For information see "Student Awards and Fellowships."

Cooperative Education

For information see "Cooperative Education".



Robert Johnson (right), Professor of Justice, 1991 University Teacher/Scholar of the Year

General Academic Information and Regulations

As part of providing a high-quality education, the university continuously examines its academic requirements. As a result, the information contained in this and other sections of this publication may be revised. Students should consult their deans or department chairs for any new requirements that may affect their individual programs of study.

Academic Advising

The American University considers academic advising an essential element of the educational process. The various advising resources at the university are available to help students define the choices they must make and to give any needed guidance. Students with academic concerns may seek assistance from course professors, faculty and professional advisers, peer advisers, department chairs, deans, and various student support services throughout the university.

The university recognizes differing advising needs of students and provides opportunities to ensure that these needs are met. Some students prefer close supervision and support from advisers through each step in the educational process. Other students prefer to seek guidance on a more informal, intermittent basis.

The American University requires adviser-student conferences at least once a semester. The student, however, bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures. An adviser assists the student in order to ensure a well-balanced education and interprets university policies and procedures.

It is the student's responsibility to be aware of the many advising resources of the university and to use these resources as needs arise. The university maintains responsibility for ensuring that these resources maintain high standards for serving students effectively and efficiently and that needs are being met.

See also: Career Center, Center for Psychological and Learning Services, and International Student Center in this publication.

Grading System

Calculated in the Grade Point Average:

Grade	Quality Points
A (Excellent)	4.0
A-	3.7
B+	3.3
B (Very Good)	3.0
B-	2.7
C+	2.3
C (Satisfactory)	2.0
C-	1.7
D	1.0
F0
X (administrative penalty)*0

*The X grade is assigned by the instructor in lieu of an F when a student never attended or ceased attending the class, rendering an assessment of academic performance impossible.

Not Calculated in the Grade Point Average:

I	incomplete
IP	in progress (for a course for which a grade is not necessarily due at the end of the semester, e.g. independent study)
L	auditor (no credit)
N	no grade reported by instructor or invalid grade
P	pass
W	withdrawal
ZF	fail on pass-fail option
ZL	administrative withdrawal from audit
ZX	fail (administrative penalty) on pass-fail option

Grade Point Average

The cumulative grade point average includes only those courses taken for conventional grades (A through F). Courses below the 100 level or taken pass-fail are not included in the grade point average, nor are grades of incomplete (I). See also "Repetition of Courses" below.

Credit accepted for transfer from another institution is included in the total amount of credit applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at The American University and are not used in computing the cumulative grade point average needed for graduation.

For calculation of the graduate cumulative grade point average, see "Graduate Study" in this publication.

Pass-Fail

For undergraduate students, the grade of P indicates a quality of performance no less than C (2.00) on a conventional grading scale. For graduate students, the grade of P indicates performance equivalent to a B (3.00) or better on a conventional grading scale. Performance below these levels is reported as ZF.

Neither the P grade nor the ZF or ZX grade is calculated in the grade point average. Degree credit, however, is received with the grade of P.

Incomplete Grades

At the discretion of the faculty member, the grade of I (incomplete) may be given to a student who, because of extenuating circumstances, is unable to complete the course during a semester. The grade of "Incomplete" may be given only if the student is receiving a passing grade for the course work completed. Arrangements for a grade of "Incomplete" must be made in advance of the final examination. An Incomplete Contract form detailing what work is to be submitted, the deadlines for such submission, and a grade to be substituted for the I should submission deadlines not be met is signed by both the student and the faculty member. The submission deadline should not extend beyond the last day of the following semester (not counting summer).

No grade of I will be recognized by the Office of the Registrar without the proper documentation. On completion of the requirements of the course within the time specified on the Incomplete Contract form, the grade of I must be resolved to a grade of A through F, P, or ZF. Unless resolved by the faculty member to one of these grades, the substitute grade specified on the Incomplete Contract form will be inserted as a final grade in place of the I by the Office of the Registrar. A W may not be given to remove a grade of I. An I may not stand as a permanent grade. (For regulations pertaining to independent reading courses and independent study projects, see the appropriate section in this publication.)

Communication of Grades to Students

Grade reports are mailed to students as soon as possible after the end of an academic session. At the time the first grade reports are issued, an N is substituted for each grade that has not yet been received. Supplemental grade reports are prepared as changes occur and such changes are reported weekly to students and deans by the Office of the Registrar. Many instructors release grade results to their

students in various ways as soon as they have completed their evaluation.

Changes in Grades

Once reported, a grade may not be changed except to remove a grade of incomplete as stated above, or to correct a grade recorded in error. To remove a grade recorded incorrectly, the faculty member must certify in writing to the Office of the Registrar that an error was made.

Repetition of Courses

Whenever a course is repeated, each attempt, including the final grade, is entered separately on the permanent academic record. Unless specifically indicated to the contrary, however, only one successful attempt of a course is counted toward fulfillment of graduation credit requirements. With the exception of the Freshman Forgiveness rule (see "Undergraduate Study" in this publication), the grades received in all attempts are considered in the computation of the undergraduate cumulative grade point average. For calculation of the graduate cumulative grade point average, see "Graduate Study" in this publication.

Student Records

A permanent record, reflecting academic achievement, is maintained in the Office of the Registrar for each student who registers at the university. Information needed for the continuing evaluation of the progress of a student, including grades earned, is sent by the University Registrar to the dean of the student's college or school as it becomes available. For more information regarding student records, see "Confidentiality of Student Records" in this publication.

Transcripts

Students may obtain transcripts of their academic records from the Office of the Registrar. There is a \$2 fee for each official transcript.

Transcripts will be released only on the signed request or release of the student concerned.

The university will not issue a transcript that reflects only a part of the student's record, nor will it make copies of transcripts on file from other colleges and universities.

Certification of Enrollment

The Office of the Registrar supplies, on request of a currently enrolled student, certification of certain academic data concerning the records and status of the student. These certifications are used for Department of Education and scholarship forms, employment applications, and so forth. They are not to be confused with transcripts of the student's permanent academic record.

Name Change

The student's name entered on the permanent record may be changed if the name has been legally changed and if the change is supported by court order. Changes of name on the permanent records will be made for currently enrolled students only. Diplomas may not be changed or reissued.

Graduation

The university confers degrees and issues diplomas at the end of the fall, spring, and summer terms. Formal commencement ceremonies are held in January for fall degree candidates and degree recipients from the preceding summer, and in May for spring degree candidates.

Candidates for degrees are to file an Application for Graduation form in the degree clearance section of the Office of the Registrar during the period of registration for the last expected term of study.

Students pay a graduation fee of \$25 at the time they first file for degree clearance. There is no fee for reapplication.

Only after application for graduation has been made can the Office of the Registrar begin processing the necessary information for final certification of graduation. Students who fail to complete all degree requirements by the end of the term for which they applied to graduate must reapply in order to graduate later.

Graduate students are advised also to consult the more detailed information about comprehensive examinations, thesis, and dissertation deadlines, etc., available from academic offices.

Conferral of Degrees and Commencement

Only students who successfully complete degree requirements by the end of the term for which they have applied (or reapplied) to graduate are certified for conferral of a degree. In witness of the degree conferred, the permanent records of the graduates are appropriately noted with a statement of graduation and their diplomas are released.

All candidates for degrees whose academic records indicate that they can satisfy degree requirements by the end of the term for which they have applied are permitted to participate in commencement ceremonies. Students who are eligible to receive summer or fall degrees are recognized in the winter ceremony; those who appear eligible to receive spring degrees are recognized at the spring ceremony. For fall and spring degree candidates, final certification for the degree is not made until after the ceremonies have been held. Participation in a commencement ceremony does not itself constitute conferral of a degree, nor does it imply an obligation on the part of the university to award a degree before all requirements have been met and certified.

Registration

Registration is conducted on the dates specified in the academic calendar published in detail in the *Schedule of Classes*. Students who register during advance registration are billed later. During direct registration students pay when they register. In order to register, a student must (1) be admitted to the university or be approved for enrollment for nondegree study; (2) clear any balances on the student account; (3) secure approval of a program of study from an academic adviser; (4) complete the necessary registration advisement forms; (5) file all registration forms with the Office of the Registrar; (6) and pay tuition and fees. More detailed information and instructions are published in the *Schedule of Classes*.

Late Registration

Late registration begins with the first day of classes for the term and is permitted during the period provided in the academic calendar. No student will be allowed to register after those dates. Students registering during late registration must pay a fee of \$50 in addition to other charges.

Changes in Registration

A student who finds it necessary to add or drop a course or change a credit value (in a variable-credit course) or grade type in a course in which he or she is already registered may make such an adjustment during the periods specified in the semester's *Schedule of Classes*.

A student may not add a course after the second week of classes for fall or spring (or the equivalent for summer), with the exception of independent reading courses or study projects or cooperative education courses, which may be added through the fourth week of classes. A student may not change a grade option after the second week of classes.

A student may withdraw from a course from the beginning of a semester until the midterm date established by the registrar. After that, a course withdrawal will be permitted only with the approval of the dean or dean's designate of the student's school or college. The instructor's approval may be required, but in all cases the dean must confer with the instructor and inform the instructor in writing of the decision. In any case, withdrawal from courses after the midterm date should occur rarely and only in cases of well-documented emergencies beyond the student's control. A low or failing grade in the course is not grounds for a late withdrawal.

When a student withdraws from a course during the first two weeks of a semester, the course will not appear on the academic record; withdrawal thereafter is noted with a W in place of a grade. Withdrawal during a summer session is subject to the same rules, proportionally adjusted.

To effect any of these changes in registration, a Course Registration Change form must be submitted to the Office of the Registrar after the appropriate approval signature or signatures have been obtained. Detailed instructions are provided in the *Schedule of Classes* each term. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official action.

Student Responsibility

Students assume financial and academic responsibility for each course they register for. Students are also responsible for properly registering for the course they intend to take. Attending class and completing the required work do not constitute an official registration. Refunds, cancellation of charges, and release from courses are governed by the refund and withdrawal policies stated in this publication and in the *Schedule of Classes*. Unless a course is canceled by the university, charges for it remain in effect and the student continues to be responsible for completing it unless the student drops the course or withdraws from the university.

The appropriate forms for these actions must be submitted to the Office of the Registrar. The date on which the registrar receives the student's written notification of drop or withdrawal is the effective date on which academic ac-

tion, refunds, and cancellation of charges are based. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official withdrawal or course change.

Nondegree Student Registration

A student who does not wish or is not ready to pursue a degree program but desires to register for particular courses for which he or she is qualified may be considered by the University Programs Advancement Center for permission to enroll as a nondegree student. Such a student receives full academic credit for courses successfully completed. See "Nondegree Study" in this publication for details.

Off-Campus Registration

The Office of Contract Programs arranges for course offerings at selected off-campus locations throughout the Washington metropolitan area. These courses provide nondegree study opportunities and can also be used in both graduate and undergraduate degree programs. Although the scheduling of off-campus courses follows the general pattern of the university calendar and time schedule, it does not necessarily conform exactly to the campus semester dates.

While students may register for most off-campus courses on-campus during regular registration, special registrations are also held at the off-campus locations. For further details, consult the Office of Contract Programs at (202) 885-3990.

Consortium Registration

In cooperation with The Catholic University of America, Gallaudet University, George Mason University, The George Washington University, Georgetown University, Howard University, Marymount University, Mount Vernon College, Trinity College, The University of the District of Columbia, University of Maryland, and the Wesley Theological Seminary, The American University offers qualified undergraduate and graduate degree students the opportunity to enroll for courses at any of these institutions through the Consortium of Universities of the Washington Metropolitan Area. Such courses are usually limited to those not offered by or not immediately available at The American University. Credit earned through this program is considered residence credit.

Courses in the off-campus program of The George Washington University may not be taken through the consortium program by American University students, nor may students from other consortium universities take American University off-campus courses through the consortium program.

Independent reading courses, independent study projects, special tutorial courses, and courses offered in medicine, dentistry, nursing, or canon law are excluded from consortium registration. To be eligible for this program, students must (1) be fully admitted degree students, (2) be actively enrolled, (3) be in good academic standing, (4) be approved by The American University dean or department chair of the subject matter field for which registration is requested, and (5) be approved by the Office of the Registrar. The student is responsible for securing approval at the cooperating institution.

Forms to be used for this program are available in the Office of the Registrar. American University students must follow the registration procedures published in the *Schedule of Classes* for that term and pay the tuition rate of The American University. Special fees (such as lab fees) are paid to the school where the course is offered.

Graduate degree students enrolled in one of the consortium universities or associated member colleges will be eligible for direct-borrowing cards. Applications for a consortium borrowing card are to be made at the main library of the home university.

Any eligible consortium student who registers for a course at another consortium institution automatically receives library privileges at the institution giving the course.

Auditing

A student who wishes to attend a class but who does not wish to participate, take examinations, receive a final grade, or receive credit for the course may register as an auditor. Tuition and fees for auditors are the same as those for students registering for credit.

Faculty may establish standards of class participation and attendance for auditing that must be met if a student is to remain in audit status.

Changes to or from audit must be made before the last day to add a course.

Undergraduate Audit Program

Qualified undergraduate students may audit up to nine undergraduate credit hours free of charge after they have completed 120 credit hours at The American University or while enrolled in the semester in which the last course required for a degree is to be completed. Enrollees in this program must have a cumulative grade-point average of 3.50 on completion of ninety credit hours at The American University. Registration is accomplished during the first two weeks of a semester. Courses taken under this program do not involve tuition, but any special fees (for example, a music fee) must be paid by the student.

Alumni Audit Program

Holders of earned degrees from the university may take one nontutorial course each fall, spring, and summer semester as auditors with tuition remitted; a nominal registration fee is charged. An alumnus or alumna wishing to audit a course is limited by the availability of space in it during the late registration period. Registration under these terms does not include such courses as independent study, laboratory courses, private music instruction, honors courses or maintaining matriculation. An alumnus or alumna who wishes to have a course reflected on his or her academic record, or who wishes to receive credit for the course, must enroll through the Registrar's Office and pay tuition at the prevailing rate.

Withdrawal from the University

Degree-seeking students who wish to withdraw from the university should go to the dean's office of their academic unit for the completion of a Withdrawal Request form, for an exit interview and counseling, and for information on the refund policies and procedures of the university.

Nondegree students who wish to withdraw from the university should complete a drop form for each course they are registered for and submit the forms to the Office of the Registrar.

Curricular Information

Academic Calendar

The academic calendar is divided into fall and spring semesters (approximately fourteen weeks each) and a summer term (also approximately fourteen weeks) consisting of two seven-week sessions (evening classes), two six-week sessions (daytime classes), a ten-week session, and a three-week session.

The last week of the fall and spring semesters is set aside for final examinations. However, the decision to give final examinations is left to the discretion of the college, school, department, or individual instructor offering the course. If no final examination is given, the course will meet for a final class during the scheduled final examination period. The time set for all final examinations is two and a half hours.

The holidays and vacations usually observed by the university are as follows: Labor Day; Thanksgiving weekend (Thursday, Friday, Saturday); Christmas and New Year's Day (included in the midyear intersession break); Martin Luther King, Jr. Day; Inauguration Day (every four years); Memorial Day; and Independence Day. Spring break is the week following of spring semester midterm. Classes continue until 10:40 p.m. the evening before a holiday or vacation period.

The official calendar for each academic term is published in detail in the *Schedule of Classes*. Faculty members and students should check this source for final information about the current academic calendar. The university reserves the right to change any published calendar. Information about last-minute changes will be distributed as widely as possible, especially through the local news media.

The Washington College of Law traditionally follows a calendar which differs somewhat from that of the rest of the university.

Course Numbers

Each course is designated by a five-digit number. The digits to the left of the decimal point represent either the teaching unit offering the course or an area within such an academic unit: 03.xxx Anthropology; 19.xxx Economics; 07.xxx Art History. The last three numbers identify the level of the course as follows: xx.001-xx.099=no degree credit; xx.100-xx.499=undergraduate degree credit; xx.500-xx.599=graduate courses to which advanced undergraduate students may be admitted; xx.600-xx.799=graduate courses to which undergraduate students usually are not admitted.

Off-campus courses carry the letter O as a prefix to the teaching unit code.

The current teaching unit codes for course numbers are as follows:

Teaching Unit Name	Course Number Code
American Studies	02.xxx
Anthropology	03.xxx
Art:	
Art History	07.xxx
Studio and Design	05.xxx
Audio Technology	50.xxx
Biology	09.xxx
Business Administration:	
Accounting and Taxation	14.xxx
Finance and Real Estate	13.xxx
International Business	12.xxx
Management	10.xxx
Marketing	11.xxx
Chemistry	15.xxx
Communication	17.xxx
Computer Science	40.xxx
Consortium Institutions:	
The Catholic University of America	82.xxx
Gallaudet University	85.xxx
George Mason University	97.xxx
Georgetown University	86.xxx
The George Washington University	87.xxx
Howard University	88.xxx
Marymount University	96.xxx
Mount Vernon College	84.xxx
Trinity College	89.xxx
The University of the District of Columbia	83.xxx
The University of Maryland	91.xxx
Wesley Theological Seminary	81.xxx
Economics	19.xxx
Education	21.xxx
English Language Institute	74.xxx
Government	53.xxx
Health and Fitness	49.xxx
History	29.xxx
Information Systems	55.xxx
Interdisciplinary Studies	75.xxx
International Service	33.xxx
Jewish Studies	34.xxx
Justice, Law and Society	73.xxx
Language and Foreign Studies:	
Advanced and Topics	37.xxx
Elementary and Intermediate	36.xxx
Linguistics	38.xxx
Law	39.xxx
Literature	23.xxx
Mathematics	41.xxx
Performing Arts:	
Dance, Music, Theatre, and Arts Management	67.xxx
Applied Music	68.xxx
Philosophy	60.xxx
Physics	51.xxx
Public Administration	54.xxx
Psychology	57.xxx
Religion	61.xxx
Sociology	65.xxx
Statistics	42.xxx

Study Abroad:

Copenhagen	92.xxx
Beijing	93.xxx
Poland	94.xxx
Paris	95.xxx
University Honors	01.xxx
Washington Semester	56.xxx
Women's Studies	76.xxx

Credit Values

All undergraduate and graduate courses are valued in credit hours. There are no fractional credit hours. Generally, each credit hour is equal to 50 minutes of class instruction a week.

Course Descriptions and Syllabuses

Descriptions of individual courses are given with the course listings in this publication. Course syllabuses are available from departmental offices.

Course Prerequisites

Many courses call for a minimum background of knowledge as indicated by prerequisite courses cited in individual descriptions. Titles and numbers are those of American University courses; equivalent courses satisfactorily completed at other accredited institutions also meet prerequisite requirements by transfer credit.

Students are responsible for entering the class with the required competence. Thus, prerequisites warn students of the knowledge they are to bring with them in order to meet the expected standards of performance.

Independent Reading and Study Courses

An Independent Reading Course is defined as a course in which a student by prearrangement with an instructor reads a body of material with little formal instruction.

An Independent Study Project is defined as a course in which a student does research on a topic agreed on by the student and the instructor or engages in study deemed worthy of the student's efforts by the instructor responsible for the course.

Registration for these courses is held during the regular registration period for a semester or summer session. A student may add one of these courses until the end of the fourth week of a fall or spring semester or until the end of the second week of a summer session.

Before a student registers for an independently supervised course, the student and faculty member must agree on and document the title, objective, scope, and credit value (one to six credit hours) of the project to be pursued. The head of the teaching unit must approve the project and the faculty member's involvement, and certify that the project does not duplicate a course being offered in the same semester that would be available to the student. If the course is to be used to fulfill University Honors Program requirements the approval of the teaching unit's honors coordinator and the approval of the Director of the University Honors Program are required.

It is expected that the student will meet periodically (or correspond if necessary) with the instructor to review progress. Students are generally expected to complete an independently supervised course within the semester of registration. At the discretion of the instructor, the time limit may be extended, however, to the end of the second

term following the term in which the student registered (including summer).

Students in independently supervised courses may be assigned conventional grades or pass-fail grades, according to the agreement with the instructor made before registration. A temporary grade of IP (in progress) will be assigned by the instructor at the end of the semester in which the student registered if an extension of the time limit has been approved. The IP grade must be resolved to a final grade by the end of the second term following (including summer). Any further extension must be authorized according to the regulations governing grades of Incomplete listed elsewhere in this section.

Class Periods

Day classes, except those on Wednesday and Saturday, ordinarily meet two days a week for seventy-five minutes a meeting. Wednesday and Saturday classes ordinarily meet once a week for two hours and thirty minutes. Some classes meet three times a week for fifty or sixty minutes a meeting.

Evening classes ordinarily meet once a week for two hours and thirty minutes or twice a week for seventy-five minutes a meeting. Classes at the 600 and 700 levels may, in some cases, meet for a total of two hours a week at the discretion of the teaching unit concerned.

Courses involving laboratory, studio, discussion groups, or workshops may vary from these schedules. Independent reading courses, study projects, internships, and similar kinds of study opportunities meet according to the special arrangement with the school, department, or faculty members concerned.

Students are advised to note carefully the meeting times and places listed in the *Schedule of Classes* for each term.

Emergency Cancellation of Classes

Unless cancellation of classes under special circumstances is announced publicly, classes will meet. When cancellation of classes is necessary, instructors are expected to arrange for additional reading, study assignments, or class meetings to compensate for attendance time lost.

Cancellation of Courses

Occasionally it is necessary to cancel a scheduled course because of low enrollment, because of the last-minute unavailability of an instructor, or for other unavoidable reasons. Every effort is made to announce cancellation before the first class meeting, but this is not always possible.

If a course is canceled, a student who does not choose to transfer to another course is automatically dropped and may receive a full refund of the tuition and fees paid for the canceled course by completing a refund request form in the Office of Student Accounts.

Class Attendance

The university considers class attendance a matter best left to the discretion of the individual instructor. It is expected, however, that faculty members who have a particular attendance policy will announce that policy at the first few class meetings each semester.

Veterans and others receiving government benefits are reminded that the paying agency may have specific atten-

dance policies. Details of veterans' benefits are available from the veterans' counselor in the Office of the Registrar.

Confidentiality of Student Records

The American University complies with the Family Educational Rights and Privacy Act of 1974. In accordance with this act, the university allows students access to their official records and an opportunity for a hearing to challenge records they find inaccurate, misleading, or otherwise inappropriate.

The university must obtain students' written consent before releasing information from their records to persons outside the university, except as provided by the act and except for certain directory information. Information may be furnished to a student's parents without written consent only with certification of the student's financial dependence. A student who does not want directory information released must notify the Office of the Registrar in writing. Forms for this purpose are available from the registrar and should be filed within thirty days following enrollment at the university.

The university must comply with a judicial order or lawfully issued subpoena to release a student's record and will notify the student of this action.

Copies of the university's full policy statement on the confidentiality and release of student information may be obtained from the Office of the Registrar.

Student Responsibility

Students are responsible for their behavior, academic and otherwise, at The American University. The American University expects that students, as mature members of the academic community, will adhere to the highest standards of personal and academic integrity and good taste.

To protect their academic status, students should seek the appropriate approval of their academic program advisors. It is highly recommended that students keep their own records of all transactions with the university (grade reports, registration schedules and changes, incomplete forms, etc.).

It is also advisable to keep copies of all tests and papers submitted in fulfillment of course work.

University Liability

Faculty, students, staff, and guests are responsible for their personal property, clothing, and possessions. The university does not carry any insurance to cover losses of such articles nor does it assume any responsibility for such losses.

Academic Integrity Code

The *Academic Integrity Code* for The American University describes standards for academic conduct, rights and responsibilities of members of the academic community, and procedures for handling allegations of academic dishonesty. Academic dishonesty, as defined by the *Code* includes, but is not limited to: plagiarism, inappropriate

collaboration, dishonesty in examinations (in-class or take-home), dishonesty in papers, work done for one course and submitted to another, deliberate falsification of data, interference with other students' work, and copyright violations.

Violations of the *Academic Integrity Code* are treated seriously, with special attention to repeat offenders. After a second determination of guilt is established through formal review by a major teaching unit, a student will be suspended or dismissed.

Penalties for an academic offense may include one or more of the following: resubmission of the work in question, submission of additional work for the course in which the offense occurred, a lowered grade or loss of credit for the work found to be in violation of the *Code*, a failing grade of F or ZF for the course in which the offense occurred, denial of credit for the course in which the offense occurred, suspension for one or more academic terms, including the term in which the offense occurred, and dismissal (for a specified term or permanently) from the university.

By registering as a student at The American University, all students acknowledge their awareness of the *Academic Integrity Code*. Students are responsible for becoming familiar with their rights and responsibilities as defined in the *Code* and are responsible for knowing the requirements for their particular courses (regarding such issues as collaborative work, use of study aids, or take-home examinations). Students are responsible for learning the conventions of documentation and acknowledgement of sources required in academic discourse.

Copies of the *Academic Integrity Code* are available from the Office of the University Registrar.

Rights, Responsibilities, and Code of Conduct

As adopted by the University Senate at its February 5, 1975 meeting and with the concurrence of the Provost, February 18, 1975. *Revised 1986 and 1989.*

Preamble

The American University community is composed of faculty, students and administrators who live, work, and study together in an institutional framework in pursuit of truth and the dissemination of knowledge. Freedom of inquiry and intellectual endeavor can flourish only in a community in which the participants are united in their mutual search for intellectual growth.

The pursuit of truth in a setting of free inquiry requires an institutional framework in which each member of the university community must recognize and be assured of the academic freedom and the personal rights and liberties of all the members of the community—for themselves and for each other. The preservation of academic freedom and personal rights and liberties in the fullest sense of those expressions are the responsibilities of each and every member of the community—in a real sense these freedoms and responsibilities are indispensable to the university community.

76 General Academic Information and Regulations

If the purposes of the university and its community are to be realized and advanced, the rights, responsibilities, and reasonable standards of conduct essential to a university community must be set forth.

The Rights, Responsibilities, and Code of Conduct of The American University hereinafter promulgated and set forth by the University Senate with the approval of the President and the Provost are established for The American University community.

Part I. Rights and Responsibilities

1. No member of the university community shall be deprived of academic freedoms, personal rights, and liberties without due and fair processes of applicable university regulations.
2. No disciplinary sanctions may be imposed upon any member of the university community under authority of the university without fair and due process provided.

Part II. Code of Conduct

Misconduct under this code for which the students are subject to university discipline is defined as follows:

- A. Physical abuse of any person on university premises or at university sponsored events or functions; or conduct which threatens or endangers the health or safety of any such person.
- B. Theft of university property or of property of a member of the university community on university premises.
- C. Willful, wanton, or reckless damage to university premises or property or property of a member of the university community; or littering on university property.
- D. In nonacademic university related matters, dishonesty or knowingly furnishing false information.
- E. Fraud, forgery, alteration, or unauthorized use of documents, university records, or instruments of identification with the intent to defraud or deceive.
- F. Intentional obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other university activities, including public service functions and other authorized activities, on university premises.
- G. Entry or attempt to enter without lawful authority of any dwelling, building, or facility on university premises, against the will of the lawful occupant or of the person lawfully in charge thereof, or being therein or thereon, without lawful authority to remain, and

refusing to quit the same on demand of the lawful occupant or of the person lawfully in charge thereof.

- H. Failure to comply with published university policy or with directions of university community officials authorized and acting in performance of their duties.
- I. Adjudicated violations of District of Columbia and federal law (including acts declared unlawful relating to narcotic drugs, dangerous drugs, alcoholic beverages, and gambling) on university premises and in university residence halls.
- J. Keeping, using, possessing, selling, or distributing of any firearms, fireworks, explosives, illegal drug paraphernalia, or dangerous weapons on university premises or in university residence halls or at university sponsored functions; or any other materials or substances which are prohibited by law with the sole exception of law enforcement officials duly authorized by law to possess firearms for the performance of their duties.
- K. Possessing, using, or consuming intoxicants except beer and wine where specifically authorized under lawful circumstances and conditions on university premises and in university residence halls.
- L. Gambling or other illegal or unauthorized games or contests of chance on university premises and in university residence halls or at university sponsored functions.
- M. Unauthorized soliciting or canvassing by any individual, group or organization on university premises or in university residence halls.
- N. Unauthorized use of the university's corporate name, which is the property of the university, by any person, persons, or organizations.
- O. Failure to be fully responsible for the behavior of guests on university premises or in university residence halls.
- P. Harassment, intimidation, or hazing.
- Q. Violations of published rules governing university residence halls.

Conduct Council

The American University's students, faculty and administrative officers have created a Conduct Council to assure just, speedy, and constructive resolution of controversies arising from infractions of The American University Code of Conduct for Students. For information on the Conduct Council, see the "Student Life" chapter in this publication, or consult the Division of Student Life.

The College of Arts and Sciences

Dean Betty T. Bennett

Associate Dean for Undergraduate Affairs Naomi Baron

Associate Dean for Graduate Affairs Brian T. Yates

Associate Dean for Faculty and Curricular Development Austin M. Barron

Associate Dean for Budget and Administration Kathleen Kennedy-Corcy

Academic Counselors Carl E. Cook, Marilyn Erickson, Earl W. Redding

The mission of the College of Arts and Sciences is to inspire and invigorate the creative potential of students and faculty to perceive, conceptualize, and act. In pursuing these goals, we are dedicated to preserving civilization's accumulated accomplishments as expressed through the arts, humanities, sciences, and social sciences. We are further dedicated to expanding knowledge through the original contributions of faculty and students. In developing the professional applicability of our programs, we attest to and demonstrate our immediate relevance to the larger world.

Members of the College of Arts and Sciences community work collaboratively to achieve their academic, professional, and personal objectives. In this spirit, the college has established a proud tradition of combining outstanding teaching with research excellence through which we freely explore the past and present in order to better shape the future. Students learn to examine western and non-western cultures in their many aspects; to appreciate scientific inquiry; to master written and oral expression; to develop the critical ability to analyze and synthesize information; and to build an understanding of the moral and ethical dimensions that should inform all individual and collective decision making. Working with faculty and peer mentors, as well as with professional academic counselors, students select courses, majors, and programs of study to achieve these goals.

The college takes particular pride in the broad range of its programs and in its interactive approach to learning.

Our twenty-one units include: the departments of Anthropology, Art, Biology, Chemistry, Computer Science and Information Systems, Economics, Health and Fitness, History, Language and Foreign Studies, Literature, Mathematics and Statistics, Performing Arts, Philosophy and Religion, Physics, Psychology, and Sociology; the School of Communication and the School of Education; and programs in American Studies, Jewish Studies, and Women's Studies. We offer master's programs in eighteen fields, and doctorates in nine fields. Eighty-four percent of the faculty hold doctorates; the remainder hold appropriate terminal degrees in their disciplines. The faculty's achievements are also reflected in their strong record of publications, grants, and scholarly awards in teaching and research. Our varied and rigorous curricular offerings reaffirm the values and ideals of traditional, comprehensive arts and sciences education.

The College of Arts and Sciences draws on the educational resources of Washington, D.C.—social, cultural, artistic, and scientific—that bring a unique dimension to intellectual inquiry. These include the John F. Kennedy Center for the Performing Arts, the Library of Congress, the Smithsonian Institution, the National Academy of Sciences, the National Aeronautics and Space Administration, the National Archives, the World Bank, and foreign embassies. Through off-campus visits, distinguished lecturers, and field experiences such as co-ops and internships, the college creates a "Washington Connection" that enhances traditional classroom learning. These experiences outside of the classroom help students discover how liberal arts perspectives enable them to create a broadened vision and understanding as they acquire the knowledge and skills appropriate to the fulfillment of life as responsible and educated citizens of the world.

Faculty

The College of Arts and Sciences has a distinguished teacher-scholar faculty of some 263 full-time professors and approximately 295 adjunct professors. Experts in their own fields, they have included ambassadors, advisers

to presidents, world-renowned performers, national press figures, distinguished scientists, recognized artists and composers, pioneers in special education and learning theories, and consultants to major organizations, corporations, and even nations. Each year the college invites professors from other institutions, American and foreign, as well as artists in residence, to join the faculty.

Undergraduate Study

Academic Advisement

The college challenges students to assume substantial responsibility for defining their educational goals, yet provides careful professional guidance to help them respond to the challenge. Undergraduates plan their academic programs with faculty advisers or academic counselors according to their interests, vocational plans, and academic maturity. First-semester freshmen are counseled by means of a detailed curriculum guide. The response to this information provides the basis for the first semester's coursework. During freshman orientation, immediately before the beginning of the semester, entering students meet with their assigned advisers to discuss their academic programs. Usually, these advisers counsel students until formal declaration of a major, at which time the student selects or is assigned a faculty adviser in his or her major department. Transfer students go to the departments of their intended majors for academic advisement. If undecided on a major, transfer students are advised by a counselor in the Office of the Dean. Any student needing additional assistance from an academic counselor or dean of the College of Arts and Sciences should make an appointment through the receptionist in the Gray Hall lobby (202 885-2440).

Foreign Language

The College of Arts and Sciences encourages students to gain proficiency in at least one foreign language. It is natural for students embarking on a career in international relations, study of the humanities, specialization in minority groups in the United States, and those with many other interests to concentrate on language study. Graduate study will often require proficiency in one or more foreign languages.

Bachelor of General Studies

The Bachelor of General Studies (B.G.S.) degree with a major in General Studies is offered by the College of Arts and Sciences in conjunction with the Office of Continuing Studies. The degree is designed to serve the educational needs of adults who seek professional or personal advancement through either full- or part-time study. Advisement for students enrolled in the program is provided by academic counselors in the University Programs Advisement Center (202-885-2500) and by the faculty in the appropriate academic departments.

Associate in Arts Degree

Some students do not or cannot remain in college for four years, yet desire to complete a degree program. This situation, along with the development of the junior college,

has contributed to the popularity of the Associate in Arts degree, which may be awarded after successful completion of two years' study or the equivalent. To receive the associate degree, the student must fulfill the University Requirements in college writing and College Mathematics and the General Education requirements for associate degrees, and must accrue a total of sixty credit hours with a cumulative grade point average of 2.00 or better. (See "Continuing Studies" in this catalog.)

Majors

By the end of the sophomore year, if not before, CAS students are expected to declare an academic major. It is in this field that the student pursues study in depth and synthesizes academic knowledge. Major programs are described under departmental sections of this chapter. A student should become familiar with departmental requirements and regulations as stated in this publication and on check sheets available in department offices. When making a formal declaration of major, students should ask to be assigned a major academic adviser who will supervise their studies until graduation.

Students interested in the natural sciences, mathematics, music, and art need to take specific courses in the freshman year if they intend to complete a degree in eight semesters. Such students should declare their interests as soon as possible and seek explicit counseling from the appropriate department.

Interdisciplinary Major

This program permits College of Arts and Sciences undergraduates to complete an interdisciplinary major according to their needs, abilities, and interests. A program is formulated with the advice and approval of three faculty members from disciplines relevant to the student's defined emphasis, and is subject to the review and approval of the dean.

The initiative in such degrees lies with the student. It is the student who is responsible for determining the concept or theme on which the program is to center. With the three faculty members, the student determines the requirements of the chosen concentration and identifies a sequence of course work that fulfills the program's objectives. The program must be formulated in a written statement no later than the first semester of the junior year. (See "Interdisciplinary Studies" in this publication.)

Minors

Undergraduate students may earn a minor in most departments and programs of the College of Arts and Sciences. For all minors offered by the College of Arts and Sciences at least nine credit hours of the stated requirements must be taken in residence at The American University. (See "Undergraduate Study" in this publication. For descriptions of specific minor programs, see the individual departmental listings in this chapter.)

Preprofessional Programs

The college offers preprofessional curriculums in engineering, law, medicine and dentistry, social work, and theology.

Students interested in a graduate degree program in social work often major in one of the social sciences, with particular emphasis on sociology and psychology.

Pre-theology students find the university's relationship with the Wesley Theological Seminary beneficial, and the Center for Campus Ministries directs an innovative program of religious activities that complements preprofessional studies in religion.

The preprofessional programs in engineering, law, and medicine and dentistry are described in separate sections of this chapter.

Consortium

Affiliation with the twelve-member Consortium of Universities of the Washington Metropolitan Area greatly expands the educational horizon for the student (see also the introduction in this publication).

Living-Learning Center

Traditionally, classrooms have been used for learning and dormitories have been used for living. The Living-Learning Center integrates these two experiences into an enriched education program for freshmen who live on an Anderson Hall floor designated for students of the center and for upper-class honors students.

The small classes in the center's suite of rooms and the informal atmosphere of the dormitory encourage group interaction and a close relationship between students and faculty. Study facilities in the center provide participants with a convenient and comfortable place to study and meet friends. A student takes two courses offered by the center and selects other courses from those offered by the teaching units of the college or other schools.

Internships and Cooperative Education

Internship and cooperative education programs, which engage the student in practical experience in its most intimate terms, support learning and on-the-job training. Interns work in many organizations in both the public and the private sectors in the Washington area. The growing number of internships in the college is a convincing testimony not only to their popularity, but also to their success. For further information on cooperative education, see "Cooperative Education" in this publication.

Study Abroad

A variety of study abroad opportunities are available to students in College of Arts and Sciences. For more information see "Special University Programs" in this catalog or consult the office of the Washington Semester Program and World Capital Programs in the Dunblane House, Tenley Campus (202-895-4900).

Graduate Study

The graduate programs of the College of Arts and Sciences are directed toward the development of highly competent scientists, sensitive teachers, and critical scholars. To achieve this objective, the college provides an academic setting and climate favorable to the free interchange of ideas and the disciplined exploration and testing of the

most seminal of these notions. The primary function of this collaborative interchange between mature and maturing scholars is to enhance the latter's understanding of and sensitivity to the spirit and styles of intellectual problems of their own choosing and to seek their solution. These individually-defined problems and the creative inquiry they generate are the ultimate influence for the fashioning of each student's program of graduate study in the college. See the specific program descriptions under individual departments of the college below. Also, see "Graduate Degree Requirements" in this catalog.

American Studies

Director John Willoughby

Full-Time Faculty

Professor K. Mussell

Associate Professor B. Williams

American studies offers students the opportunity to explore American culture through many paths, including America's intellectual traditions, creative arts, popular media, material culture, ethnic variety, folklore, social structure, and social change. Students learn to draw together the tools and insights of other disciplines to capture the complexities of American society, and to discover what Americans share as well as how they differ. In addition to foundation courses in the program, students choose one area of particular interest to them. Some decide to concentrate in a field such as literature, business, journalism, anthropology, history, or art. Others create a more personalized specialty such as women's studies, African-American studies, or urban affairs.

All students learn to use and appreciate Washington's American studies research centers and cultural resources, including the Library of Congress, the National Archives, the Smithsonian Institution, and the city's many museums. Many study the city itself. Most work at internships during their senior year in such places as Congress, the Kennedy Center, the Smithsonian, or Common Cause.

The goals of the American Studies Program are to help each student develop an area of expertise and to build the skills for thinking critically, writing clearly, and untangling the relationship between large cultural forces and ordinary peoples' life experiences. American Studies graduates work in such diverse fields as journalism, broadcasting, local or national government, foreign service, teaching, museums, private business, and social services. Many students go on to graduate study or to law school.

B.A. in American Studies

Admission to the Program

Formal admission to the major requires a grade point average of 2.50 in two courses related to the major.

University Requirements

- A total of 120 credit hours

- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-three credit hours with grades of C or better

Course Requirements

- 02.202 American Dream/American Life /A, S (3)
- 03.201 Cultural Anthropology /S (3)
- 02.400 Interpreting American Culture (4)
- Nine credit hours from the following:
23.210 Survey of American Literature I (3)
23.211 Survey of American Literature II (3)
29.205 America's Quest for the Good Society: 1607-1865 /A 2:2 (3)
29.206 America's Quest for the Good Society since 1865 (3)
- Twelve credit hours of courses dealing with some aspect of American life selected from a single department or related departments
- Nine additional credit hours in American studies courses at the 300 level or above, excluding independent study and internships
- One of the following as a senior project:
02.410 Senior Thesis I (3)
02.411 Senior Thesis II (3)
02.491 Internship in American Studies (3-6)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in American Studies

Requirements

- 02.202 American Dream/American Life /A, S (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology /S (3)

- Twelve credit hours in American studies at the 300 level or above

Anthropology

Chair Dolores B. Koenig

Full-Time Faculty

Professor J.J. Bodine, K. Halpern (Emeritus), G.L. Harris (Emeritus), R.H. Landman, C.W. McNett, Jr., H.C. Moore (Emeritus), A.L. Vilakazi (Emeritus)

Associate Professor G.L. Burkhart, D.B. Koenig, W.L. Leap, B. Williams

Research Faculty

Research Professor B. Maday

Research Associate Professor R.J. Dent

Applied Anthropologist in Residence D. Gross, G. Schafft, B. Hackett

Anthropology explores exciting questions about what is both universal and unique in the human condition. Anthropology, by its very nature, is a consciously nonsexist, nonracist, and nonelitist discipline; long ago anthropologists learned how to appreciate the variety of social and cultural systems in the world and the importance of looking at the human experience from various perspectives.

Different types of anthropologists explore these issues from different points of view. Cultural and social anthropologists, for example, untangle the richness of economic patterns, social systems, arts, and values of peoples around the world. Archaeologists help communities document and preserve the full detail of their history and prehistory. Physical anthropologists explore the dynamics of human evolution and study nutrition, health, and illness in their cultural contexts. Linguists examine different languages to see how linguistic structures affect speakers' perceptions of the world around them.

The anthropology program at The American University introduces students to research in these and other areas while involving students in training programs and on-the-job experiences in which research can be applied to practical tasks. Internships within government or private agencies can be arranged for qualified students at all degree levels. Washington, D.C. is an international city, replete with museums, libraries, embassies, and other sources for cross-cultural research. Anthropology faculty are actively involved in their own basic and applied research tasks, and students are included in project activities whenever possible.

Undergraduates will find it easy to coordinate a major or minor in Anthropology with degree requirements in other teaching units. Graduate students may choose between a regular M.A., an applied M.A., or the doctoral program, depending on background, career interests, and professional goals.

B.A. in Anthropology

Admission to the Program

Formal admission to the major by the department's undergraduate studies director requires a cumulative grade point average of 2.00 (on a 4.00 scale) and a grade point average of 2.00 or better in two anthropology courses.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of forty-two credit hours with grades of C or better

If a student's career plans require skill in a foreign language, a cluster of courses in a second discipline, field experience, or some other special preparation, arrangements will be made in discussion with the undergraduate adviser.

Course Requirements

- 03.202 Human Origins /N (3)
- 03.251 Perspectives in Cultural Anthropology (3)
- 03.253 Introduction to Archaeology (3)
- 03.254 Anthropology and Language (3)
- 03.339 Culture Area Analysis/S (3)
- 03.445 Developments in Anthropological Theory (3)
- 03.450 Senior Seminar (3)
- 03.552 Anthropological Research Methods (3)
- Four courses chosen from the following group:

Comparison and Analysis

- 03.200 City as Community /S 4:2 (3)
- 03.210 Roots of Racism and Interracial Harmony /S 3:2 (3)
- 03.215 Sex, Gender, and Culture /S 3:2 (3)
- 03.220 Living in Multicultural Societies /S 3:2 (3)
- 03.225 Language and Human Experience /A 1:2 (3)
- 03.331 Human Variation (3)
- 03.335 Culture and Personality (3)
- 03.336 Social Structure (3)

03.339 Culture Area Analysis /S (3) (if taken more than once, topic must be different)

03.342 Women and Work (3)

03.350 Special Topics (3)

03.430 Magic, Witchcraft, and Religion /A (3)

03.431 Taboos (3)

03.531 Archaeology (3)

03.532 Culture Change (3)

03.534 Economic Anthropology (3)

03.535 Ethnicity (3)

03.537 Language and Culture (3)

- Two courses, one from each of the following two groups:

Specialized Methods and Techniques

42.202 Basic Statistics (4)

42.502 Introduction to Mathematical Statistics (3)

03.531 Archaeology: Artifact Analysis (3)

03.550 Ethnographic Research Methods (3)

03.553 Data Banking and Multivariate Techniques (3)

03.560 Summer Field School: Archaeology (3-9)

Practical and Applied

03.392 Cooperative Education Field Experience (3)

03.491 Internship in Anthropology (3-9)

03.542 Principles of Applied Anthropology (3)

03.543 Anthropology of Development (3)

03.544 Topics in Applied Anthropology (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Anthropology

Requirements

- 03.251 Perspectives in Cultural Anthropology
- Two courses from the following:
 - 03.202 Human Origins /N (3)
 - 03.253 Introduction to Archeology
 - 03.254 Anthropology and Language
- Three additional courses chosen at the 300 level or higher in consultation with a member of the departmental faculty

Minor in Applied Anthropology

Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
 - 03.542 Principles of Applied Anthropology (3)
- 03.542 is to be taken after at least six credit hours of anthropology have been completed.
- An additional twelve credit hours, at least nine of which must be at the 300 level or above, chosen from at least two subfields (socio-cultural, linguistic, archaeological, physical) in consultation with an adviser

Combined B.A./M.A. Program in Anthropology or Applied Anthropology

This program is primarily designed for transfer students who enter The American University in their junior year with substantial background in anthropology. It allows eligible students to complete the B.A. in Anthropology and the M.A. in Anthropology or M.A. in Applied Anthropology after three years (six semesters) of uninterrupted study. Students with interest in applied anthropology or in a field related to anthropology (e.g. law, social services, government service, public health) will find this degree combination especially appropriate for preprofessional training.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate majors ordinarily apply for admission to the combined B.A./M.A. program at the end of their junior year. Admission decisions follow the procedures used to evaluate graduate applicants to the M.A. programs. Interest in this degree combination should be discussed with members of the faculty before formal application is begun.

Requirements

- All requirements for the B.A. in Anthropology
- All requirements for either the M.A. in Anthropology or the M.A. in Applied Anthropology

Students may use six credit hours of course work in anthropology to satisfy the requirements for both degrees.

M.A. in Anthropology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department.

An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- One written examination in general anthropological theory and method (03.006)
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two members of the faculty. Final approval by the chair is required.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.797 Master's Thesis Seminar (6) (thesis option)

Note: A student from another discipline may take a comprehensive examination in anthropology (03.022 Cultural Analysis) with a minimum of nine credit hours in anthropology.

M.A. in Applied Anthropology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- One written examination stressing the relevance of general anthropology to applied work (03.008)
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two faculty members. Final approval by the chair is required

Course Requirements

- 03.532 Culture Change (3)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3) or
- 03.544 Topics in Applied Anthropology (3)
- 03.631 Proseminar: Cultural and Social Anthropology (3)

- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
or
03.637 Proseminar: Anthropological Linguistics (3)
- 03.691 Internship in Anthropology (3)
or equivalent application of anthropological method and theory to practical problem-solving in the student's area of interest
- 03.797 Master's Thesis Seminar (6) (thesis option)

Ph.D. in Anthropology

Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work
- Two languages or one language and statistical or computer analysis as a tool of research
- Four comprehensive examinations

Examinations include 03.006 (Anthropological Method and Theory); one in a main field (03.016 Ethnological Methods, 03.017 Archaeological Methods, or 03.018 Linguistic Methods); one in an approved elective subfield of specialization (03.020); and one in an approved area of concentration (03.021). At least two examinations must be written and at least one must be oral.

- A dissertation and an oral defense

Field work is a component of dissertation research except in very unusual cases.

Students entering the program with an M.A. in Anthropology earned elsewhere must complete thirty credit hours of course work and twelve credit hours of dissertation credit in residence.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.799 Doctoral Dissertation Seminar (12)

Note: A student in another discipline may take a comprehensive examination in anthropology with a minimum of twelve credit hours in anthropology. Anthropology students may take one outside

examination if they take twelve hours of course work in a second approved discipline.

Art

Chair Don Kimes

Full-Time Faculty

Professor N. Broude, I. Eno (Emerita), M.D. Garrard, A.S. Keck (University Emeritus), S. Lewis, L. Penay (Emeritus), B.L. Summerford (University Professor Emeritus), T. Turak

Associate Professor L. Brabanski (Emeritus), M. Graham, R. M. Haynie, M. Hirano, D. Kimes, M. Oxman, C. Ravenal

Assistant Professor D. Kahn, C.A. Story

Research Faculty

The Department of Art encompasses the creative activities of the fine arts (painting, sculpture, and printmaking), the artistic applications of design, and the theoretical and historical concerns of art history. These complementary programs function together, so that the student gains not only depth of knowledge in a chosen specialty but also the breadth of experience that yields understanding of artistic traditions and values.

A faculty of exhibiting artists and practicing designers and strong studio programs focused on giving students facility with materials and familiarity with visual concepts make the art department, in effect, an art school within a university. In addition to the full-time faculty, the studio program's Center of Excellence brings an outstanding series of nationally and internationally distinguished visiting artists-in-residence to the department each year. Since 1987 this program has included Katherine Porter, Fritz Scholder, Andrew Forge, Kenneth Noland, Catherine Murphy, Joan Snyder, Nathan Oliveira, George McNeil, Mercedes Matter, Jane Wilson, Charles Cajori, Rosemarie Beck and Wayne Thiebaud. An equally strong art history faculty and curriculum give the Art History major a solid grounding in art as a historical and humanistic discipline in an environment that provides continuing contact with art in the making. Because of the university's location in one of the major art capitals of the world and its proximity to Washington's great museums and art collections, all programs afford students the advantage of immediate experience with art masterpieces of the past and present.

An important objective of the department is to prepare students for careers in the arts. Given the sound theoretical and technical bases of our programs, our graduates find that a wealth of individual career opportunities awaits them. Depending on the specific discipline pursued they have become professional painters and sculptors, teachers, critics, graphic designers, illustrators, and exhibition design specialists. In addition, careers in museum and gallery work, teaching, visual resources, and historic preservation are available to qualified art historians.

B.A. in Art History

Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of twelve credit hours of art history courses and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-four credit hours with grades of C or better
- Twenty-four of the last thirty credit hours in the major program must be taken in residence, eighteen hours of which must be in art history and six in related fields or studio

Course Requirements

- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- 07.500 Approaches to Art History (3)
- Three credit hours in each of four periods:

Ancient

- 07.302 Roman Art (3)
- 07.307 Women and Art (3)
- 07.396 Selected Topics (Nonrecurring) (appropriate topic)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

Medieval

- 07.303 Medieval Art (3)
- 07.307 Women and Art (3)
- 07.308 Gothic Art (3)
- 07.396 Selected Topics (Nonrecurring) (appropriate topic)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

Renaissance

- 07.205 Art of the Renaissance /A 2:2 (3)
- 07.307 Women and Art (3)
- 07.316 The Architecture of Humanism 1400–1700 (3)
- 07.396 Selected Topics (Nonrecurring) (appropriate topic)
- 07.501 Baroque Painting (3)
- 07.513 Renaissance Painting: Giotto to Bellini (3)
- 07.514 Renaissance Painting: Leonardo to Caravaggio (3)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

Modern

- 07.210 Modern Art: Nineteenth and Twentieth Centuries /A 1:2 (3)
- 07.305 Aspects of American Art (3)
- 07.307 Women and Art (3)
- 07.318 Nineteenth and Twentieth Century Architecture (3)
- 07.331 Painting and Sculpture in the United States until 1900 (3)
- 07.332 Painting and Sculpture in the United States: 1900 to the Present (3)
- 07.333 American Architecture until 1870 (3)
- 07.334 American Architecture: 1870 to the Present (3)
- 07.396 Selected Topics (appropriate topic)
- 07.508 Painting: Rococo through Impressionism (3)
- 07.510 Painting: Post-Impressionism to Expressionism (3)
- 07.511 Painting: Cubism to the Present (3)
- 07.520 Seminar in Art History (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

- Fifteen additional credit hours in art history

At least two of the art history courses taken to fulfill requirements must be at the 500 level.

- Six hours in studio from the following:
 - 05.100 Art: The Studio Experience /A 1:1 (3)
 - 05.205 Drawing: Responding to Vision /A 1:2 (3)
 - 05.210 Painting: Color, Form, Expression /A 1:2 (3)
 - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
 - 05.320 Creative Painting (3)
 - 05.340 Sculpture (3)
 - 05.360 Drawing (3)
- Twelve credit hours at the 300 level or above from one of the following fields: American studies, anthropology, history, literature, music, and philosophy

Course selections must be related to the major and to each other and must be approved by the faculty.

Note: Students contemplating graduate study in art history are advised to attain a reading knowledge of French, Italian, or German to the intermediate level (or equivalent of twelve credit hours at the college level).

Special Opportunities

A major program track in American Art/American Studies is possible. It requires at least a twelve-credit-hour concentration in American art and a twelve-credit-hour related course requirement in American studies. Internships in local agencies, museums, galleries, and libraries are permitted with departmental approval, but are limited to three credit hours unless taken as electives.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Design

Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of twelve credit hours of design courses and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of fifty-four credit hours with grades of C or better
- Twenty-four of the last thirty credit hours in the major program must be taken in residence, of which eighteen hours must be in design and six in studio or art history

Course Requirements

- 05.220 Design: Color Theory and Practice /A 1:2 (3)
- 05.225 Design: Form, Space, Vision /A 1:2 (3)

- 05.348 Design Techniques I (3)
- 05.350 Typography: Theory and Practice (3)
- 05.351 Design Techniques II (3)
- 05.353 Typography: Color and Design (3)
- 05.356 Advanced Design I (3)
- 05.357 Advanced Design II (3)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- 17.430 Basic Photography (3)
- Six credit hours from the following:
 - 05.310 The History of Graphic Design (3)
 - 05.354 Production for Graphic Designers (3)
 - 05.359 Illustration (3)
 - 05.392 Cooperative Education Field Experience (3-9)
 - 05.396 Selected Topics (Nonrecurring) (appropriate topic)
 - 05.491 Internship (3) (with approval of department)
- Nine credit hours in studio from the following:
 - 05.100 Art: The Studio Experience /A 1:1 (3)
 - 05.205 Drawing: Responding to Vision /A 1:2 (3)
 - 05.210 Painting: Color, Form, Expression /A 1:2 (3)
 - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
 - 05.320 Creative Painting (3)
 - 05.340 Sculpture (3)
 - 05.360 Drawing (3)
 - 05.364 Printmaking: Woodcut and Surface Print (3)
- Six additional credit hours in art history

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Studio Art

Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of twelve credit hours of studio courses and departmental approval.

Tracks

Painting, Sculpture, and Printmaking

University Requirements

- A total of 120 credit hours

- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of fifty-four credit hours with grades of C or better
- Twenty-four of the last thirty credit hours in the major program must be taken at this university (eighteen hours must be in studio, six may be in art history)

Course Requirements

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)
- 05.360 Drawing (6)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Eighteen credit hours including twelve credit hours from one and six credit hours from another of the following areas of concentration:

Painting

05.320 Creative Painting (2-3)

Sculpture

05.340 Sculpture (2-3)

Printmaking

05.364 Printmaking: Woodcut and Surface Print (3)

05.520 Techniques of Etching (3)

- Nine additional credit hours from the following:
05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)

05.320 Creative Painting (2-3)

05.340 Sculpture (3)

05.344 Ceramics (3)

05.360 Drawing (3)

05.364 Printmaking: Woodcut and Surface Print (3)
(this course is required for students with a concentration in painting)

05.520 Techniques of Etching (3)

05.533 Materials and Techniques of Painting (3)
(this course is required for students with a concentration in painting)

05.560 Drawing (3)

- Six additional hours of art history

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Bachelor of Fine Arts

Admission to the Program

Formal admission to the program is subject to the approval of a portfolio, evaluation of the academic record, and a personal interview. Admission depends entirely on faculty action resulting from this review. Consideration for B.F.A. is permitted only after eighteen credit hours or three semesters of studio work at The American University but before beginning the senior year.

Tracks

Painting, Sculpture, and Printmaking

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of seventy-two credit hours with grades of C or better

Course Requirements

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)
- 05.360 Drawing (6)
- 05.560 Drawing (3)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- Twenty-one credit hours from one of the following concentrations:

Painting

05.320 Creative Painting (2-3)

Sculpture

05.340 Sculpture (2-3)

Printmaking

05.364 Printmaking: Woodcut and Surface Print (3)

05.520 Techniques of Etching (3)

- Twelve credit hours in one other concentration, or six credit hours in each of the other two concentrations

- Nine additional hours from the following:

05.215 Sculpture: Form and Expression in 3-D / A 1:2 (3)

05.320 Creative Painting (3)

05.340 Sculpture (3)

05.344 Ceramics (3)

05.360 Drawing (3)

05.364 Printmaking: Woodcut and Surface Print (3)

05.533 Materials and Techniques of Painting (3)
(this course is required for students with a concentration in painting)

05.520 Techniques of Etching (3)

05.560 Drawing (3)

- Six additional credit hours of art history

Note: Students who contemplate completing a double major will not be able to complete a B.F.A. program within the 120-credit-hour limit.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Art History**Requirements**

- 07.100 European Art: From Cave to Cathedral / A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Nine additional credit hours at the 300 level or above, arranged and approved in advance with an art history adviser, and three credit hours at the 200 or 300 level.

Minor in Design**Requirements**

- 05.220 Design: Color Theory and Practice / A 1:2 (3)
- 05.225 Design: Form, Space, Vision / A 1:2 (3)

- 05.348 Design Techniques I (3)
- 05.350 Typography: Theory and Practice (3)
- Nine credit hours from the following:
 - 05.310 The History of Graphic Design (3)
 - 05.351 Design Techniques II (3)
 - 05.353 Typography: Color and Design (3)
 - 05.354 Production for Graphic Designers (3)
 - 05.356 Advanced Design I (3)
 - 05.359 Illustration (3)

Minor in Studio Art

Requirements for the minor in Studio Art are dependent upon the student's interest and choice of concentration. Areas of concentration may include painting, printmaking, sculpture, drawing, or ceramics. The Studio Art minor requires twenty-one credit hours arranged and approved in advance through consultation with a studio faculty adviser. The adviser and student select the appropriate sequence of courses from the following list:

- 05.100 Art: The Studio Experience / A 1:1 (3)
- 05.205 Drawing: Responding to Vision / A 1:2 (3)
- 05.210 Painting: Color, Form, Expression / A 1:2 (3)
- 05.215 Sculpture: Form and Expression in 3-D / A 1:2 (3)
- 05.320 Creative Painting (2-3)
- 05.340 Sculpture (2-3)
- 05.344 Ceramics (3)
- 05.359 Illustration (3)
- 05.360 Drawing (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)

M.A. in Art History**Admission to the Program**

In addition to meeting the minimum university requirements for graduate study, applicants should hold a Bachelor of Arts degree from an accredited college or university. Students whose records indicate a strong aptitude for graduate study, but whose undergraduate major was not in art history, will be required to complete at least twenty-four credit hours of art history before being considered for admission to the graduate program. Admission is based on academic record and two letters of recommendation (if the undergraduate degree was not earned in the department).

At the department's discretion, students who have completed at least eighteen credit hours of art history may be considered for admission and, if admitted, may complete the six-credit-hour deficiency during the course of their M.A. program.

Part-time students are advised that an M.A., which takes at least three semesters of full-time study, cannot be completed at night only or in summer only.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work (A special thirty-six credit-hour program with a structured museum internship option is available to qualified students)
- Tool of research: intermediate level French, German, or Italian, or reading knowledge of one of these languages demonstrated through examination
- Advancement to candidacy after completion of eighteen credit hours with an average of 3.00 or better and satisfactory completion of the tool requirement
- Two written examinations

One examination in 07.003 History of Western Art (Greek to Modern) and one in the student's specialized field of art history: 07.079 Medieval Art, 07.010 Renaissance Art, 07.011 Baroque and Rococo Art, 07.012 Nineteenth and Twentieth Century Art, 07.020 Art in the United States, or 07.021 Architecture.

- Two substantial research papers in lieu of a thesis. One paper must originate in a graduate seminar. One paper must be in the student's field of specialization.

Course Requirements

- Nine credit hours in the field of specialization
- Six credit hours in master's research seminars, or independent study (07.792 and 07.793), of which three hours must be in the field of specialization (see examinations above for fields of specialization)
- 07.500 Approaches to Art History (3), if an equivalent course was not taken at the undergraduate level
- Remaining courses distributed according to individual program and needs

Note: About six additional credit hours of course work are required if museum training or more than one internship is selected.

Curriculum Models

Curriculum Model I: General History of Western Art. A discipline-oriented approach for students who intend to continue for a Ph.D. elsewhere or to teach at the high school or junior college level. The M.A. program would emphasize a range of art history courses with a conventional period specialization.

Curriculum Model II: Applied Research in Art History. A practical-applications approach with intensive training in research and writing for students who seek special training for museum work, architectural survey, historic preservation research, etc. The M.A. program could include related course work in history, culture, American studies, etc., as well as internships and field experience.

Curriculum Model III: Concepts of Art and Art History. A problem-oriented approach aimed at depth of understanding of art and methods of art history, for students interested in connoisseurship and critical analysis, generally with an emphasis in painting. The M.A. program would include fine arts courses such as 05.533 Materials and Techniques of Painting (3) (for which some studio experi-

ence is required) and 05.700 Criticism of Painting (3), as well as independent-reading courses in criticism, theory, or historiography.

Special Opportunities

Individually-structured programs in museum training and internships in local museums, galleries, agencies, or libraries, such as the National Museum of American Art, the American Institute of Architects, and the Library of Congress, are available for qualified students with departmental approval.

M.F.A. in Painting, Sculpture, or Printmaking

Although the department's orientation is very much toward painting, it is possible for a limited number of students with special permission to take the M.F.A. program in sculpture or in printmaking (woodcut and etching). Students should consult the department on the status of the sculpture and printmaking fields of study before submitting an application for admission.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a Bachelor of Arts (with a major in Fine Arts) or a Bachelor of Fine Arts. Under special circumstances, applicants without a B.A. or B.F.A. degree or without a major in Fine Arts, but with outstanding artistic or professional qualifications, may be considered for admission.

Admission is based on academic record, two letters of recommendation (if the undergraduate degree was not earned in the department) and a portfolio of at least twenty slides, including examples of drawings. A résumé of the applicant's background should be included in the portfolio. Slide portfolios should be sent directly to the Department of Art. The Department of Art cannot be liable for loss or damage or for any transportation or mailing expense.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work

Additional studio (or art history) courses may be required to attain maturity and proficiency and to complete satisfactorily the comprehensives and thesis. The number and kinds of additional courses will be stipulated by the admissions committee at the time of admission.

- One oral examination after completion of 05.792 Art Laboratory and after each section of 05.797 Master's Thesis Seminar
- A series of original works of art in the student's field of concentration (painting, sculpture, or printmaking) executed independently by the student in consultation with a thesis committee of two or three faculty members. Written and photographic documentation of approved thesis is also required.

Course Requirements

- 05.560 Drawing (9)
- 05.700 Criticism of Painting (3)
- 05.792 Art Laboratory: Painting (3)
- 05.797 Master's Thesis Seminar (9)
- Six additional credit hours from the following:
05.520 Techniques of Etching (3)
05.533 Materials and Techniques of Painting (3)
05.560 Drawing (3)
05.792 Art Laboratory: Painting (3)
05.793 Art Laboratory: Sculpture (3)
05.795 Art Laboratory: Printmaking (3)
- Six credit hours in art history, which must be in painting if thesis field is painting. Distribution for printmaking and sculpture must be approved by faculty.

Audio Technology

Director Romeo A. Segnan

Full-Time Faculty See faculty listed under the Department of Physics in this publication.

The B.S. in Audio Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the School of Communication, the Department of Performing Arts, and Audiovisual Services. This unique program concentrates on the technology of sound; it is broad-based and includes overview courses in mass media, music theory, and theatre production. Such a program is the only route to the professionally recognized title of "audio engineer." With this training, the student is prepared for a career as a recording engineer, a radio or television audio technologist, an electronic maintenance or design engineer, or a concert-hall and theatre sound reinforcement engineer.

B.S. in Audio Technology

Admission to the Program

Formal admission to the program requires a grade point average of 2.00 and the approval of the department undergraduate adviser. The Department of Physics counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of sixty-five credit hours with grades of C or better

Course Requirements

- One of the following:
40.260 Introduction to Computing /N (4)
40.280 Introduction to Computer Science I /N (4)
- 41.170 Precalculus Mathematics /N (3)
- 50.201 Fundamentals of Audio Technology /N (3)
- 50.202 Audio Technology Laboratory (1)
- 50.230 Acoustics (3)
- 50.310 Sound Synthesis I (4)
- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 50.320 Sound Synthesis II (4)
- 50.322 Electronics Laboratory I (2)
- 50.323 Electronics Laboratory II (2)
- 50.340 Electronic Practicum (3)
- 50.384 T.V. Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 50.500 Digital Interfacing (4)
- 51.105 College Physics I /N 5:1 (4)
- 51.205 College Physics II /N 5:2 (4)
- 67.126 Music Theory for Nonmajors /A (3)
- One of the following:
17.205 Understanding Mass Media /S 4:2 (3)
17.333 Fundamentals of T.V. and V.T.R (3)
17.346 Audio-Visual Communication (3)
17.410 Interpersonal Communication (3)
- One of the following:
67.260 Principles of Production (4)
67.362 Lighting Design (3)

Special Opportunities

Internships are available at active professional recording studios, radio and television stations, and theatres. Employers of audio engineers include business, government, educational institutions, and the entertainment industry.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Audio Technology

The minor in Audio Technology is designed for students who do not aspire to become audio engineers, but who do need a good working knowledge of audio techniques. Students wishing to minor in Audio Technology should consult the academic advisers in the Department of Physics.

Course Requirements

- 50.201 Fundamentals of Audio Technology /N (3)
- 50.202 Audio Technology Laboratory (1)
- 50.384 T.V. Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 51.105 College Physics I /N 5:1 (4)
- 51.205 College Physics II /N 5:2 (4)
- 17.333 Fundamentals of T.V. and V.T.R (3)
or one of the following:
17.346 Audio-Visual Communication (3)
17.430 Basic Photography (3)
17.435 Introduction to Studio Television (3)

Biology

Chair David C. Culver

Full-Time Faculty

Professor W.C. Banta, E.J. Breyer (Emeritus), S.O. Burhoe (Emeritus), D.C. Culver, M.C. Sager (Emerita)

Associate Professor R.J. Chinnis, B.J. Clarke, R.H. Fox, S.C. Grebe, C.R. Wrathall

Assistant Professor I. Chow, K. Conway, D.W. Fong, K.A. Goddard

The Department of Biology provides basic training in the life sciences, emphasizing modern advances in areas of molecular genetics, embryology and development, and evolutionary biology. Faculty members are involved in conducting research in developmental biology, evolutionary biology, neurobiology, microbiology, ecology, oceanography, immunology, and molecular biology. Students are encouraged to participate in research projects at all levels.

The department offers programs leading to the B.S. as well as graduate programs leading to the M.A. and M.S.

degrees. Besides training for a career of graduate study in biology, bachelor's students are prepared for medical, dental, and veterinary schools. The Department of Biology offers courses which combine traditional education with training necessary in today's professional marketplace. Curricula are designed to allow maximum individual choice of course selection after departmental requirements have been met.

Our students have the opportunity to visit, observe, and intern in some of the nation's most prestigious biological research centers, including NIH and NIMH.

Two minors are offered, one in Biology, and one in Environmental Science. The Environmental Science minor is especially designed for students who are not majoring in the sciences but wish to have rigorous training in the area of environmental science.

In cooperation with the School of Education, the department also offers a special curriculum which leads to certification for teaching biology at the high-school level. Students who have selected this specialization must consult the teacher-education adviser in the biology department during the second semester of the freshman year. The Department of Biology is accredited for teacher education by two national accrediting organizations: the National Council for the Accreditation of Teacher Education (NCATE) and the National Association of State Directors of Teacher Education and Certification (NASDTEC).

Graduate Degrees and Specialties

The Department of Biology offers programs leading to the M.A. and M.S. degrees with concentrations in developmental biology and evolutionary biology. The department also offers an interdisciplinary program in environmental toxicology. No other university in the Washington, D.C., Metropolitan area offers strong concentrations in developmental biology and evolutionary biology at the master's level.

Graduates may choose to pursue further graduate training or to attend professional school. Laboratory technicians or other persons in biomedical careers may earn their degrees as a way of upgrading their classifications and job skills. In addition, graduates will be able to take advantage of job opportunities in places such as research laboratories, museums, and zoos.

Both the M.S. and M.A. degrees in Biology emphasize the development of research techniques. Research and teaching laboratories are well-equipped and constantly upgraded. Students have the opportunity to gain experience in scientific methods and experimental design in the laboratory and the field.

Graduate research may be carried out in the department or in the laboratories of such federal agencies as Walter Reed Institute of Pathology, the National Institutes of Health, and the U.S. Naval Hospital.

Graduate students can apply for the Helmlinge and Burhoe Awards. These two fellowships are available only to biology graduate students.

Experiential Learning Opportunities

In addition to on-campus courses that provide laboratory and field experiences, students may also participate in a wide array of activities off campus in living-learning programs. Students may also be placed in government

policy-making or regulatory agencies and private-sector laboratories as interns or on independent-study projects.

Preprofessional students in the health sciences visit hospitals and clinics in the area and have an active speaker program run by their fraternity.

B.S. in Biology

Admission to the Program

Admission is through formal declaration of major. The department counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of seventy-two credit hours with grades of C or better

Course Requirements

Departmental Requirements

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)
- 09.300 Cell Biology with Laboratory (4)
- 09.356 Genetics with Laboratory (5)
- 09.499 Senior Seminar in Biology (3)
- Twenty credits from the following, or other approved courses at the 300 level or above:
09.404 Biology of Plants with Laboratory (4)
09.410 Invertebrate Zoology with Laboratory (4)
09.423 Introduction to Ecology (3)
09.435 Vertebrate Physiology with Laboratory (5)
09.440 Microbiology with Laboratory (5)
09.550 Developmental Biology (3)
09.551 Developmental Biology Laboratory (2)
09.566 Evolutionary Mechanisms (3)

Related Requirements

- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)

- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 51.110 University Physics I /N 5:1 (4)
- 51.210 University Physics II /N 5:2 (4)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
or
42.202 Basic Statistics /N (4)

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education listing in this chapter for information.

Premedicine

Many premedical students major or minor in Biology. All prospective premedical students should contact the premedical advisor, Dr. Grebe, for academic advice and additional information. See the section on Premedical Programs in this catalog for further details.

Pre-engineering

For the many students studying in the fields of mathematics, physics, chemistry, biology, and distributed sciences who are potential engineers, The American University has established cooperative five-year programs with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri, and with the College of Engineering, University of Maryland.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Biology

Requirements

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)
- 09.300 Cell Biology with Laboratory (4)
- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- One of the following:
09.440 Microbiology with Laboratory (5)
09.356 Genetics with Laboratory (5)

09.404 Biology of Plants with Laboratory (4)

09.410 Invertebrate Zoology with Laboratory (4)

09.423 Introduction to Ecology (3) concurrently with

09.424 Introduction to Ecology Laboratory (1)

09.550 Developmental Biology (3) concurrently with

09.551 Developmental Biology Laboratory (2)

Minor in Environmental Science

Many nonscience majors want to have a strong background in environmental sciences to enable them to understand the scientific principles of environmental dynamics in relation to international affairs, corporate responsibility, federal and state laws, and the process of public administration. The minor in Environmental Science provides a rigorous curriculum in the natural sciences while enabling students to acquire the skills and information to evaluate scientific studies and problems with critical insight.

Minor Requirements

- A total of twenty-seven credit hours

Course Requirements

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)
- 15.110 General Chemistry I /N 5:1 (4)
- One of the following 200-level courses:
09.240 Oceanography /N 5:2 (3)
15.220 Environmental Chemistry /N 5:2 (3)
15.230 Earth Sciences /N 5:2 (3)
- 09.404 Biology of Plants with Laboratory (4)
- 09.410 Invertebrate Zoology with Laboratory (4)
- 09.423 Ecology (3)
- 09.424 Ecology Laboratory (1)

M.A. in Biology

This is a nonthesis degree that may serve as a terminal degree for students in various life-science professions, as additional training for students seeking admission to professional schools, or as an intermediate degree for those intending to pursue further graduate study.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must take the General Test and the Advanced Test in Biology of the Graduate Record Examination. Admission is based on evaluation of undergraduate and previous graduate work by the

departmental graduate studies committee and three letters of recommendation.

Degree and Major Requirements

- A total of thirty-two credit hours of approved graduate work
- Comprehensive examination in general biology, developmental biology, or evolutionary biology
- An examination in computer programming, or the use of an approved statistical software package as a tool of research
- Directed literature research (09.790) resulting in a significant paper reviewing some aspect of biological science; the subject of this review paper is selected by the student subject to approval by the graduate studies committee and the chair of the department
- An oral report presented in the form of a public seminar on the topic of the review paper

Course Requirements

General Biology

- 09.550 Developmental Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.661 Techniques of Molecular Biology (3)
- 09.664 Techniques of Evolutionary Research (3)
- 09.690 Independent Study Project in Biology (1-6)
- 09.700 Graduate Seminar (2)
- 09.790 Biology Literature Research (1-6)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Developmental Biology

- 09.550 Developmental Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.661 Techniques of Molecular Biology (3)
- 09.690 Independent Study Project in Biology (1-6)
- 09.700 Graduate Seminar (2)
- 09.790 Biology Literature Research (1-6)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- An additional six hours of graduate courses from the following list, or other courses by permission of the department:

- 09.505 Introduction to Neurobiology (3)
- 09.526 Comparative Mammalian Embryology (3)
- 09.551 Developmental Biology Laboratory (2)
- 09.574 Special Topics in Genetics (1-4)
- 09.577 Special Topics in Developmental Biology (1-4)
- 15.564 Biochemistry III (3)

Evolutionary Biology

- 09.550 Developmental Biology (3)
- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.664 Techniques of Evolutionary Research (3)
- 09.690 Independent Study Project in Biology (1-6)
- 09.700 Graduate Seminar (2)
- 09.790 Biology Literature Research (1-6)
- 42.514 Statistical Methods (3)
- An additional nine hours of graduate courses from the following list, or other courses by permission of the department:
 - 09.571 Topics in Zoology (1-4)
 - 09.572 Special Topics in Ecology (1-4)
 - 09.574 Special Topics in Genetics (1-4)
 - 15.560 Biochemistry I (3)
 - 15.561 Biochemistry II (3)
 - 41.501 Probability (3)
 - 42.502 Introduction to Mathematical Statistics (3)
(in lieu of 42.514)

- Advancement to candidacy, which requires the acceptance of a research proposal by the student's adviser, the graduate studies committee, and the chair of the department at least one semester prior to the oral defense of the thesis
- Completion, oral defense, and the acceptance of thesis by the thesis committee, chair of the department, and the university

Course Requirements

Developmental Biology

- 09.550 Developmental Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.661 Techniques of Molecular Biology (3)
- 09.700 Graduate Seminar (2)
- 09.797 Master's Thesis Research (6)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- An additional seven hours of graduate courses from the following list, or other courses by permission of the department:
 - 09.505 Introduction to Neurobiology (3)
 - 09.526 Comparative Mammalian Embryology (3)
 - 09.551 Developmental Biology Laboratory (2)
 - 09.574 Special Topics in Genetics (1-4)
 - 09.577 Special Topics in Developmental Biology (1-4)
 - 15.564 Biochemistry III (3)
 - 42.514 Statistical Methods (3)

Evolutionary Biology

- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.664 Techniques of Evolutionary Research (3)
- 09.700 Graduate Seminar (2)
- 09.797 Master's Thesis Research (6)
- 42.514 Statistical Methods (3)
- An additional ten hours of graduate courses from the following list, or other courses by permission of the department:
 - 09.571 Topics in Zoology (1-4)
 - 09.572 Special Topics in Ecology (1-4)
 - 09.574 Special Topics in Genetics (1-4)
 - 41.501 Probability (3)
 - 42.502 Introduction to Mathematical Statistics (3)
(in lieu of 42.514)
 - 15.560 Biochemistry I (3)
 - 15.561 Biochemistry II (3)

Special Opportunities

Teaching Fellowships, Helmlinge Fellowship, Burhoe Fellowship.

M.S. in Biology

This is a research degree that may serve as an intermediate degree for those intending to pursue further graduate study in evolutionary biology and developmental biology.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must take the General Test and the Advanced Test in Biology of the Graduate Record Examination. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation.

Tracks

Developmental Biology and Evolutionary Biology

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- Comprehensive examination in either developmental biology or evolutionary biology
- An examination in computer programming or in the use of an approved statistical software package as a tool of research

Interdisciplinary M.S. in Toxicology

The M.S. in Toxicology is an interdisciplinary degree offered jointly by the Departments of Chemistry and Biology. For a description of this program, see listing under Chemistry in this chapter.

Chemistry

Chair James E. Girard

Full-Time Faculty

Horace and May Isbell Chair in Natural Products Chemistry H.S. El Khadem

Professor M.H. Aldridge (Emerita), R.T. Foley (Emeritus), J.E. Girard, F.A.H. Rice (Emeritus), N.M. Roscher, P.F. Waters (Emeritus)

Associate Professor T.S. Cantrell, F.W. Carson, A.M. Choh

Assistant Professor S.J. Mazur, R.L. Luck, E.M. Schalk

Research Faculty

Research Professor B.H. Alexander, H.S. Isbell, J. Kutina, L.T. Hughes

Chemistry is the science that deals with the composition of materials, their structures and properties, the transformations they undergo, and the energy changes that accompany these transformations. Areas of study include general, organic, physical, analytical, and inorganic chemistry, as well as biochemistry and earth science. Students are encouraged to participate in research projects at all levels.

Accredited by the American Chemical Society, the department offers programs leading to the B.S. as well as graduate programs leading to the M.S. and Ph.D. degrees in chemistry. Besides training for a career or graduate study in chemistry, bachelor's students are prepared for medical or dental school, engineering programs, and other careers where technical expertise is needed. The department provides a personal, congenial environment where students can develop and pursue a flexible program of study designed to fulfill individual interests and needs.

Faculty members are involved in conducting research in analytical chemistry, biochemistry, inorganic chemistry, biotechnology, organic synthesis, and physical biochemistry. Laboratory research projects are available in our own well-equipped modern building and also at many world-renowned research laboratories in the Washington, D.C. area with which the department maintains close liaison.

Affiliations

Research opportunities in the Washington area through internships, cooperative education work-study programs, and special arrangements are available at the following

laboratories: Armed Forces Radiobiology Research Institute, Bureau of Mines, Center for Advanced Research in Biotechnology, Food and Drug Administration, National Institute of Standards and Technology, National Institutes of Health, Naval Medical Research Institute, Naval Research Laboratory, Naval Surface Weapons Laboratory, U.S. Army Mobility Equipment Research and Development Command at Fort Belvoir, and the Walter Reed Army Institute of Research. Students who participate in these programs obtain experience with specialized equipment and interact with research scientists outside the university.

B.S. in Chemistry

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale). The department counsels freshmen and transfer students, as well as declared chemistry majors.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of sixty-five credit hours with grades of C or better

Course Requirements

- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 15.350 Quantitative Analysis (3)
- 15.351 Quantitative Analysis Laboratory (2)
- 15.410 Physical Chemistry I (3)
- 15.411 Physical Chemistry I Laboratory (2)
- 15.420 Physical Chemistry II (3)
- 15.421 Physical Chemistry II Laboratory (2)
- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)

- 15.507 Chemical Literature (1)
- 15.550 Advanced Inorganic Chemistry (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 51.110 University Physics I /N 5:1 (4)
- 51.210 University Physics II /N 5:2 (4)
- At least three credit hours from the following:
15.490 Independent Study Project (1-6)
15.498 Departmental Honors: Senior Year (1-3)
15.499 Departmental Honors: Senior Year (1-3)
15.562 Biochemistry I Laboratory (2) and

Recommended Courses

- 15.200 Human Biochemistry /N 5:2 (3)
- 15.220 Environmental Chemistry /N 5:2 (3)
- 15.230 Earth Science /N 5:2 (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.562 Biochemistry I Laboratory (2)
- 15.570 Computers in Chemistry (3)

Courses in biology and physics.

For graduate school preparation:

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)

Medical school requirements include:

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)

Also recommended for medical school preparation:

- 09.300 Cell Biology with Laboratory (4)
- 09.330 Human Anatomy and Physiology I (3)
- 09.331 Human Anatomy and Physiology II (3)
- 09.332 Human Anatomy and Physiology I Laboratory (1)
- 09.333 Human Anatomy and Physiology II Laboratory (1)
- 09.440 Microbiology with Laboratory (5)
- 09.450 Foundations of Immunology (3)
- 09.501 Pathogenic Microbiology (4)
- 09.505 Introduction to Neurobiology (3)
- 09.506 Introduction to Medicine and Physical Diagnosis (3)
- 09.532 Medical Parasitology (4)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.562 Biochemistry I Laboratory (2)

Other suggested electives include:

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 42.202 Basic Statistics /N (4)
- 42.515 Regression (3)
- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 51.330 Classical Mechanics (4)
- 51.350 Electricity and Magnetism (3)
- 51.370 Modern Physics (3)

Competence in German, French, or Russian through the intermediate level is expected. German is highly recommended because of its value in literature searching, which is taught in 15.507 Chemical Literature.

Special Opportunities

Milton Harris Prizes for entering Chemistry majors.

A cooperative work-study program involving several participating research organizations is available through the Department of Chemistry. The undergraduate student is expected to work full time for six months and study at the university for five months. Further details are available from the department office.

An undergraduate research program is available. Qualified junior and senior chemistry majors may conduct research under 15.390 or 15.490 Independent Study Project in Chemistry.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Chemistry

Requirements

- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- Eight credit hours chosen with the advice and approval of the department chair from the following:

- 15.350 Quantitative Analysis (3)
- 15.351 Quantitative Analysis Laboratory (2)
- 15.410 Physical Chemistry I (3)
- 15.411 Physical Chemistry I Laboratory (2)
- 15.420 Physical Chemistry II (3)
- 15.421 Physical Chemistry II Laboratory (2)
- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.562 Biochemistry I Laboratory (2)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions. See the Interdepartmental Science section for information concerning requirements for the Bachelor of Science degree with a major in distributed science. See the Pre-engineering and Premedicine and Pre dentistry sections for descriptions of these programs.

M.S. in Chemistry

Admission to the Program

Applicants must have earned a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade point average in chemistry from a college accredited by the American Chemical Society. All applications must be approved by the faculty of the Department of Chemistry.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, Organic Chemistry, and Physical Chemistry

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program
- Advancement to candidacy on completion of twelve credit hours of graduate course work
- An examination in German, French, Russian, computer programming, or statistics as a tool of research; students concentrating in chemical toxicology must take the examination in statistics
- One comprehensive examination in the major field
- A thesis of publishable quality based on original chemical laboratory research

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
 - 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
 - 15.700 Seminar in Chemistry (1)
 - 15.797 Master's Thesis Research (6)
- Analytical and Inorganic Chemistry*
- 15.522 Interpretation of Spectra (3)
 - 15.551 Topics in Inorganic Chemistry (3)
 - 15.610 Advanced Analytical Chemistry (3)

Biochemistry

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.661 Enzyme Kinetics and Mechanisms (3)

Organic Chemistry

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Physical Chemistry

- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.642 Chemical Kinetics (3)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions. A Master of Science in Health/Fitness Management is listed under Health and Fitness.

Interdisciplinary M.S. in Toxicology

The M.S. in Toxicology is an interdisciplinary degree offered jointly by the Department of Chemistry and the Department of Biology.

Admission to the Program

Applicants must have earned a degree in Chemistry, Biology or a related field, from an accredited college or university. Admission is based on evaluation by the Department of Chemistry faculty of undergraduate and pre-

vious graduate work and two letters of recommendation. A cumulative undergraduate grade point average of 3.00 is required, unless the applicant meets the alternate criteria of having a grade point average of 3.50 in the last twelve credit hours of graduate work.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work
- Tool of research: statistics
- One comprehensive examination in toxicology
- Six credit hours of research seminar with a grade of B or better

Course Requirements

It is recommended that the first five core courses listed be taken before other courses.

- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 09.660 Mammalian Physiology and Pathology (3)
- 15.670 Principles of Pharmacology (3)
- 15.671 Principles of Toxicology (3)
or
09.680 Introduction to Toxic Materials
- 15.682 Toxicological Testing (3)
- 15.680 Chemical Mutagens and Carcinogens (3)
- 15.751 Research Seminar in Toxicology (must be taken twice) (6)
- Nine credit hours chosen from the following:
09.526 Comparative Mammalian Embryology (3)
09.560 Techniques in Cell Biology (3)
09.661 Techniques of Molecular Biology (3)
09.679 Aquatic Toxicology (3)
15.501 Principles of Analytical Chemistry (3)
09.682 Federal Regulations for Toxic Materials (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Ph.D. in Chemistry

Admission to the Program

Applicants must have earned either (1) a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade-point average in chemistry from a college accredited by the American Chemical Society or (2) an M.S. or M.A. in chemistry. All applications

must be approved by the faculty of the Department of Chemistry.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, and Organic Chemistry

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work

The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program. The course program consists of a set of core courses supplemented by electives determined in consultation with the student's adviser or the graduate evaluation committee.

- Advancement to candidacy on completion of eighteen graduate credit hours in chemistry for students admitted with a B.S. or B.A. degree. Students admitted from another university with an M.S. degree are required to file for advancement to candidacy on completing nine graduate credit hours in chemistry.
- Tool of research: examinations in two of the following: Russian, German, French, computer programming, or statistics. Those majoring in chemical toxicology must pass an examination in statistics as one of the tools.
- Four comprehensive examinations, two in the major field, one in the minor field, and one oral examination in defense of the dissertation proposal
- A dissertation of publishable quality based on original chemical laboratory research and oral defense before the student's committee

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.610 Advanced Analytical Chemistry (3)
- 15.700 Seminar in Chemistry (2)
- 15.799 Doctoral Dissertation Research (12-24)
- Electives determined by the student's choice of track (below):

Analytical and Inorganic Chemistry

- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.522 Interpretation of Spectra (3)

- 15.551 Topics in Inorganic Chemistry (3)
or
- 15.618 Topics in Analytical Chemistry (3)
- Biochemistry*
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.565 Physical Biochemistry (3)
- 15.661 Enzyme Kinetics and Mechanisms (3)
- 15.667 Current Biochemical Literature (6)

Organic Chemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions.

School of Communication

Dean Sanford J. Ungar

Full-Time Faculty

Professor L.B. Anderson, E.L. Bliss, Jr. (Emeritus), G.P. Harnden, J.A. Hendrix, J.E. Orwant, R.T. Stout, R.E. Sutton, L.W. Wolfson, J.S. Yamauchi

Associate Professor J.C. Doolittle, J.S. Douglass, L.M. Furber, D.T. Moore, J.C. Seigle, R.A. Streltmatter

Assistant Professor P. Auferheide, D.D. Bonafede, B.J. Diggs-Brown, R.S. Goad, J. Lustig, J.A. Olmsted, F.B. Phillipi, S.A. Roschwalb, J.C. Spear, R.A. Stack, W.S. Williams, R.S. Zaharna, A.E. Zelle

Visiting Scholar S.P. Armstrong

The goal of the School of Communication is to develop liberally educated, professionally trained communicators who are equipped intellectually and ethically to convey the issues of contemporary society.

A strong liberal arts background is emphasized by the school. To ensure that communication majors attain this background, twenty-seven credit hours in related courses outside the field of communication are required.

All students intending to major in communication complete two core courses during their freshman and sophomore years. Understanding Mass Media, 17.205, is required during the freshman year and 17.200 Writing for Mass Communication, in the first semester of the sophomore year. As second-semester sophomores, Public Communication majors register for 17.204 Public Relations, and Visual Media students enroll in 17.105 Visual Literacy.

Students begin one of the four professional programs in their junior year and take a series of carefully chosen skills courses. They also complete communication and media studies courses which examine the history, current issues, and future of communication and the media. (See "Courses of Instruction" for courses designated as media studies.) The ability to write correctly and clearly is stressed in all four professional programs.

The curriculum is carried out in the environment of Washington, D.C., the communications center of the world. The school draws heavily on the resources of the federal city for its adjunct faculty, for the material in its curriculum, and for involving students with Washington's communicators and communication facilities.

Prospective undergraduate students, including transfer students, are urged to write the School of Communication requesting a separate brochure on the undergraduate programs.

The three graduate programs, while more specialized, have the same general goals. A separate brochure on each is available.

B.A. in Communication

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students are encouraged to declare the major in Communication by the end of the sophomore year and no earlier than the end of the freshman year

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Program Tracks

Broadcast Journalism, Print Journalism, Public Communication, and Visual Media

Major Requirements

- A total of fifty-seven credit hours (sixty-six for Visual Media) with grades of C or better, including twenty-seven credit hours of related courses outside the field of communication

Thirty credit hours within the field and a minimum of ninety credit hours outside the field of communication, to include sixty-five credit hours in liberal arts and sciences, are required for the programs. Forty-two hours within the field and a minimum of seventy-eight

hours outside communication are required for the Visual Media program. The thirty or forty-two hours in the major field include all School of Communication courses: introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses. A grade of C or better is required for all communication and related course requirements.

Subject to the approval of an adviser, a maximum of twelve credit hours in communication transferred from another university may be substituted for required communication courses. Transfer students specializing in Broadcast Journalism, Print Journalism, and Public Communication are required to graduate with a total of ninety credit hours outside the field of communication. Transfer students specializing in Visual Media are required to graduate with a total of seventy-eight credit hours outside communication.

Course Requirements

Related Course Requirements

- Students complete the following courses outside the School of Communication: six credit hours in history, including at least three credit hours in American history; three credit hours in economics; three credit hours in government or international service; and a course from two of the following fields: anthropology, art (Visual Media majors only), biology, business, chemistry, foreign language, justice, literature, performing arts (Visual Media majors only), philosophy, physics, psychology, and sociology. Students also complete nine more credit hours in courses at the 300 level chosen from one of the fields above.

American history and economics are required of all majors, but a minor in any related requirement field (except business) may be substituted for the remaining related requirements. If a student chooses a minor requiring less than twenty-one credit hours, additional courses from the disciplines listed above must be taken to fulfill the twenty-seven-semester-hour related requirement. This option also applies to a second major.

Broadcast Journalism

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.320 Reporting (3)
- 17.333 Fundamentals of TV and VTR (3)
- 17.385 Broadcast Journalism I (3)
- 17.401 Legal Aspects of Communication (3)
- 17.428 Broadcast Journalism II (3)
- 17.432 Television Field Reporting (3)
- Two of the following:

17.433 Broadcast Delivery (3)

17.521 Editorial Writing (3)

A communication and media studies course (see Media Studies in the course listings in this publication).

17.491 Senior Internship (3)

or

17.392 Cooperative Education Field Experience (3)

Print Journalism

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.320 Reporting (3)
- 17.322 Editorial Policies and Methods (3)
- 17.401 Legal Aspects of Communication (3)
- 17.425 Advanced Reporting (3)
- Two courses in communication and media studies. (See Media Studies (MS) in the course listings in this publication.)
- Two of the following:
17.325 Feature Article Writing (3)
- 17.430 Basic Photography (3)
- or
- 17.523 Intermediate Photography: Photojournalism (3)

17.521 Editorial Writing (3)

A communication and media studies course.

17.491 Senior Internship (3)

or

17.392 Cooperative Education Field Experience (3)

Public Communication

- 17.200 Writing for Mass Communication (3)
- 17.204 Public Relations (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.410 Interpersonal Communication (3)
- 17.437 Public Relations Media (3)
- 17.446 Public Relations Case Studies (3)
- 17.480 Public Communication Research (3)
- Three of the following:

- 17.310 Public Speaking (3)
- 17.325 Feature Article Writing (3)
- 17.346 Audio Visual Communication (3)
- 17.430 Basic Photography (3) spring only
- 17.442 Media Training (3)
- 17.470 Organizational Communication (3)
- 17.472 Nonverbal Communication (3)
- 17.475 Group Communication Management (3)
- 17.521 Editorial Writing (3)
- 17.532 Publication Layout and Design (3)
- 17.548 Speech Writing (3)

A communication and media studies course. (See Media Studies (MS) in the course listings in this publication.)

- 17.491 Senior Internship (3)
or
- 17.392 Cooperative Education Field Experience (3)

Visual Media

- 17.105 Visual Literacy /A 1:1 (3)
- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.430 Basic Photography (3)
- 17.431 Basic Visual Media Production (3)
- 17.482 Writing for Visual Media (3)
- Moving Image Sequence:
 - 17.434 Location Film and Video Production (3)
 - 17.435 Introduction to Studio Television (3)

Two of the following:

- 17.456 Sound Film Production (3)
- 17.464 Directing Talent for Television (3)
- 17.486 Single Camera Video (3)
- 17.487 Advanced Production (3)
- 17.561 Advanced Writing for T.V./Film (3)

One additional course may be selected from the above list or from the photography courses or may be an internship or cooperative education training.

- Photography Sequence:

Minimum of three of the following:

- 17.523 Intermediate Photography: Fine Arts Photography (3)
- 17.523 Intermediate Photography: Photojournalism (3)
- 17.525 Advanced Photography (3)
- 17.529 Large Format and Studio Lighting (3)

- Three visual media studies courses from the following:

- 17.511 History of Documentary Film (3)
- 17.512 Television Documentary (3)
- 17.513 Producing Film and Video (3)
- 17.514 Censorship and Media (3)
- 17.516 Special Topics in Visual Media and Culture (3)
- 17.527 History of Photography (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3)
- 17.599 New Communication Technology (3)
- 23.375 Film and Literature (3)
- 23.376 National Cinema (3)
- 23.377 Popular Film Genres (3)
- 23.378 Major Filmmakers (3)
- 23.380 Independent Filmmakers (3)

One communication and media studies course may be substituted for one of the visual media studies courses. (See Media Studies (MS) in the course listings in this publication.)

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the major will, upon the school's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Public Affairs section of this publication.

B.A. in Foreign Language and Communication Media

Admission to the Program

Students are admitted to both the School of Communication and the Department of Language and Foreign Studies.

Program Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing

- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- Prerequisite competency in the major language at the intermediate level
- A total of fifty-four credit hours with grades of C or better

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Three communication and media studies courses from the School of Communication. (See Media Studies (MS) in the course listings in this publication)
- Two courses related to any contemporary culture taught inside or outside the department
- One of the following:
38.198 Language and Ethnicity (3)
38.199 International Vocabulary (3)
38.200 Language and Mind (3)
- Five professional courses in one of the four program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media
- Fifteen credit hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the major will, upon the school's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Washington Journalism Semester

This special one-semester undergraduate program explores journalism as it exists and is practiced in Washington, D.C. The program studies the people, institutions, and issues of Washington journalism with guest speakers, field trips, and lectures, plus an internship and an elective course selected from regular offerings of the university. The program is open to students from colleges and universities across the country.

Admission to the Program

Requirements for admission to the program are: (a) at least a 2.50 grade-point average on a 4.00 scale; (b) either a journalism major or a liberal-arts major with some evidence of interest in journalism; and (c) second-semester sophomore standing or above. Selection is competitive.

Note: This program is not open to American University communication students.

Requirements

- 17.450 Washington Journalism Semester Seminar I (4)
- 17.451 Washington Journalism Semester Seminar II (4)
- 17.452 Washington Journalism Semester Internship (4)
- One additional course chosen from regular course offerings of the university.

Minor in Communication

Designed for users and consumers of mass media, rather than for practitioners. Students wishing to minor in Mass Media Studies should consult the academic counselor in the School of Communication.

Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Two of the following:
17.310 Public Speaking (3)
17.320 Reporting (3)
17.322 Editorial Policies and Methods (3)
17.325 Feature Article Writing (3)
17.346 Audio-Visual Communication (3)
17.430 Basic Photography (3)
17.431 Basic Visual Media Production (3)
17.435 Introduction to Studio Television (3)
17.470 Organizational Communication (3)
17.472 Nonverbal Communication (3)
17.475 Group Communication Management (3)
17.521 Editorial Writing
17.532 Publication Layout and Design (3)
- Two of the the following:

- 17.401 Legal Aspects of Communication (3)
- 17.503 Mass Media and Society (3)
- 17.508 The Media and Government (3)
- 17.509 Politics and the Media (3)
- 17.511 History of Documentary Film (3)
- 17.512 Television Documentary (3)
- 17.513 Producing Film and Video (3)
- 17.514 Censorship and Media (3)
- 17.527 History of Photography (3)
- 17.530 Broadcast Operations and Management (3)
- 17.531 International Communications Systems (3)
- 17.538 Contemporary Media Issues (3)
- 17.540 American Newspapers (3)
- 17.542 American Magazines (3)
- 17.545 Business and Economic Journalism (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3)
- 17.596 Selected Topics (Nonrecurring) (3)
- 17.599 New Communication Technology (3)

Washington Journalism Institute for High School Students

This special two-week summer program teaches high-school students journalistic writing and editing, with emphasis on production of student newspapers, and introduces them to government in action in the nation's capital. Students are exposed to a wide range of cultural activities in Washington, D.C. as part of the program.

Students earn two credit hours of undergraduate credit that can be applied toward the requirements for an undergraduate degree.

Admission to the Program

Students are carefully selected on the basis of their grades, their writing ability, and the recommendation of their teachers.

Requirement

- 56.110 Media in America (2)

M.A. in Communication: Journalism and Public Affairs

Admission to the Program

Students choose one of three professional tracks: Public Policy Journalism, International Journalism, and Economic Communication.

Applicants must meet the minimum university requirements for graduate study. Previous professional or campus experience in communication is useful but is not required. However, all applicants are required to show evidence of professional commitment and career direction related to the track they choose and the print or broadcast sequence within that track.

Admission is for full-time students and for the fall semester only. The student is expected to complete this program (thirty credit hours) within a ten-month period. (See also the Weekend Graduate Program in Communication: Journalism and Public Affairs, below.)

Address initial inquiries to the Graduate Journalism Admissions Committee, School of Communication, The American University, Washington, DC 20016.

The school will send a brochure that contains a more detailed description of the purpose and content of the graduate program, and an application form which includes a request for a 1,000-word essay on the applicant's reasons for wanting to pursue graduate study in one of its tracks. The form and essay should be sent directly to the Graduate Journalism Admissions Committee, School of Communication, The American University, Washington, DC 20016. Along with the essay, applicants also should send directly to the committee, samples of published professional or college newswriting or scripts or tapes, if available.

Potential applicants will also be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at The American University, a second application form, and two reference forms.

Interviews are not required but may be requested by the school. The program has a limited number of graduate fellowships and assistantships available each year.

Inquiries about financial aid other than fellowships and assistantships should be addressed to the Office of Financial Aid.

Program Tracks

Public Policy Journalism, International Journalism, Economic Communication

Track Sequences

Broadcast Journalism and Print Journalism

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work as specified. Students may seek permission of the Director of Journalism Programs to substitute for journalism courses three to six hours of graduate study in an area related to public affairs (500 level or above).
- Broadcast or print track
- A grade point average of 3.0 maintained during all work toward the degree
- Continuous full-time registration
- One comprehensive examination, 17.001 General Communication and Journalism

Track Requirements

Public Policy Journalism

Core

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)

- 17.724 Reporting of Public Affairs (3)

Courses from one of two sequences selected by the student

Broadcast

- 17.632 Television Field Reporting (3)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with a grade of B or better)

Print

- 17.621 Advanced Copy Editing (3)
- 17.636 Washington Reporting (3)
- 17.720 Seminar in Journalism (3) (with a grade of B or better)

- Twelve credit hours of approved electives: three to six credit hours in an area of graduate study related to public affairs may be substituted for one or two journalism electives with permission of the program director. Possible areas might include political science, public administration, history, economics, the range of social science, and international relations.

International Journalism

Core

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with international emphasis and a grade of B or better)
- 17.724 Reporting of Public Affairs (3) (with international emphasis)

Courses from one of two sequences selected by the student:

Broadcast

- 17.546 Foreign Policy and the Press (3)
- 17.632 Television Field Reporting (3)
- 17.715 Seminar in International Journalism (3) (with a grade of B or better)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with international emphasis)

One international relations course outside the School of Communication (3)

One School of Communication elective (3)

Print

- 17.546 Foreign Policy and the Press (3)

- 17.715 Seminar in International Journalism (3) (with a grade of B or better)

- 17.621 Advanced Copy Editing (3)
- 17.636 Washington Reporting (3) (with international emphasis)

One international-relations course outside the School of Communication (3)

Two School of Communication electives (6)

Economic Communication

Core

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with emphasis on economic and business coverage and with a grade of B or better)
- 17.724 Reporting of Public Affairs (3) (with emphasis on economic and business coverage)
- Required economics or business courses. Students must select nine credit hours from the following:
 - 13.604 Business and Society (3)
 - 19.500 Price Theory (3)
 - 19.501 Income Theory (3)
 - 19.507 American Economic Development (3)
 - 19.522 Econometrics (3)
 - 19.546 Industrial Organization (3)
 - 19.548 Economic Indicators (3)
 - 19.571 Labor Economics: Theory (3)
 - 19.579 Energy Economics, Resources, and the Environment (3)
 - 19.603 Introduction to Economic Theory (3)

Broadcast or Print

- 17.545 Business and Economic Journalism (3)
- One economics or business elective (3)
- Two School of Communication electives (6)

Requirement Notes

1. Students with insufficient news writing and reporting experience or with insufficient familiarity with American government and journalism must pass 17.624 Principles and Practice of Journalism with a minimum grade of B before entering the program. This intensive course, usually offered in August, does not count for credit in the thirty credit hours for the degree.

2. Students who have earned a B or better in a news-media law course within five years of enrollment may petition to be exempted from 17.601 Legal Aspects of Communication. International students are normally exempted from this course.

3. Students with extensive professional editing experience may petition to be exempted from 17.621 Advanced Copy Editing.

Special Opportunities

The program draws heavily on the resources of Washington D.C., for both professional field work and classroom

study. Students are encouraged to take a professional internship.

Weekend Graduate Program in Communication: Journalism and Public Affairs

The part-time M.A. program in Journalism and Public Affairs is for professionals whose schedules make Saturday classes a preferable alternative to full-time study. Students in this program follow a planned curriculum in the Public Policy Journalism track, moving through the program as members of an intact group to complete ten courses in the print journalism sequence.

Admission requirements are the same as for the full-time program, and for the fall semester only. The student is expected to complete this program (thirty credit hours) within a twenty-month period.

For more information, address inquiries to: Coordinator, Weekend Journalism Program, Office of Continuing Studies, The American University, 4400 Massachusetts Ave. N.W., Washington, D.C. 20016-8113, telephone (202) 885-3970.

M.A. in Communication: Public Communication

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Previous academic or professional work in public communication is not required, but all applicants must demonstrate a serious commitment to a career in this field. The ability to speak and write English well is essential.

Admission is open to both full-time and part-time students and is for the fall semester only. Part-time students are expected to take a minimum of two courses each semester and complete their program in two years. Full-time students are generally expected to complete the program in ten months.

Inquiries should be addressed to: Graduate Public Communication Program, School of Communication, The American University, Washington, DC 20016.

A graduate application packet and an informative brochure are available from the school on request. The brochure provides a more detailed explanation of the program and describes the thousand-word statement of purpose that is required of all applicants. Two copies of the statement of purpose should be sent to the Graduate Public Communication Admission Committee.

Interviews are not required but may be recommended by the school. The program has a limited number of graduate teaching assistantships available each year. These are reserved for full-time students.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work in public communication and related fields. The required work in public communication comprises twenty-one credit hours. Students with insufficient background may be required to take 17.644 Public Communication Writing.

- A graduate project is required of all students. The project work must be focused in one of the following communication areas: Arts Communication; Corporate Public Relations; Government and Political Communication; International Public Relations; and Public Interest Communication. The project should be selected to provide an important credential for future employment as well as a focus for learning. It should reflect the student's career direction within the broad field of public communication. Students must receive a grade of B or better on the project. This project, which fulfills the university research requirement, is in lieu of a thesis.
- One comprehensive examination, 17.003 Public Communication

Course Requirements

- 17.640 Public Communication Principles (3)
- 17.642 Public Communication Management (3)
- 17.646 Public Communication Production (3)
- 17.735 Communication Theory (3) (with a grade of B or better)
- 17.738 Research Methods in Communication (3) (with a grade of B or better)
- 17.741 Communication Processes (3)
- 17.744 Public Communication Seminar (3) (with a grade of B or better)

Students may take from six to nine credit hours of approved work from courses that relate to their project area, including an internship. The courses may be taken in communication or in other fields such as sociology, business, performing arts, education, government, justice, international service, psychology, anthropology, art history, literature, economics, or statistics.

Students choosing corporate public relations should note that there are limited options in business administration electives. Please consult your adviser.

M.A. in Film and Video

Offered jointly by the School of Communication and the Department of Literature.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination (Verbal, Quantitative, and Analytical). Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study. Students without experience in film or video production are required to take 17.631 prior to or at the beginning of the regular program. This course does not count toward the thirty-three credit hours required for the degree.

Admission is not limited to full-time students, however students must be free to take the bulk of their course work

during the day. Students will normally be expected to complete the program (thirty-three credit hours) within a twenty-four month period.

A graduate application packet and a graduate film and video program brochure are available on request. The brochure describes two letters of recommendation and a thousand-word statement of purpose required of all applicants to this program and provides a more detailed explanation of the purpose and content of the program. The statement of purpose should be sent to the committee of the master's program in film and video. The letters should be sent directly to the Office of Admissions, The American University, Washington, D.C. 20016.

Further inquiries should be addressed to the School of Communication, Graduate Film and Video Program.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work

Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.

While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts and photography.

- One comprehensive examination, 17.004 Film and Video
- Six credit hours in thesis research (thesis option) or, in the case of students specializing in the areas of script writing or production, six hours involving an original creative work (nonthesis option). A grade of B or better is required in those courses taken for the thesis or nonthesis option.

Note also: Film and video courses in the School of Communication and in the Department of Literature.

Computer Science and Information Systems

Chair Larry Medsker

Full-Time Faculty

Professor R.A. Bassler (Emeritus), M.W. Gray, R.A. Holzinger, W.J. Kennevan (Emeritus), L.R. Medsker, I.D. Welt, A. Wu

Associate Professor T.J. Bergin, I.L. Chang, F.W. Connolly, L.J. Crone, W.H. Gammon (Emeritus), A.J. La Salle

Assistant Professor S. Becker, R. Crosslin, M. A. Gray, T. Hong, C.S. Kang, B. Kaplan, R. Khorramshahgol, M. Owang, A.H. Roberts

Instructor B.J. Gleason, G. McGuire, S. Smith, G. Welsh

The Department of Computer Science and Information Systems combines the resources and knowledge of two disciplines that concentrate on different aspects of the computer and information revolution. This combination enables students to gain a broader view of these fields than would otherwise be possible.

The American University's Washington, D.C. location affords students access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment for students with a strong technological background.

Computer science is the study of the theory and technology of computation itself. It is the science of information and of the structures that communicate, store, and process information. Whether one studies the machine (hardware) or the instructions fed to the machine (software), the fundamental concepts are similar.

Information systems is a professionally-oriented area covering all aspects of the analysis, design, development, and maintenance of computerized information systems. As all types of organizations become dependent on automated information resources, demand grows for information systems professionals.

Our information systems programs provide opportunities for course work to meet each student's special interests by allowing major electives to be chosen from other units in the university. With the help of an adviser from the other unit, the student can choose related courses that meet his or her needs.

The computer science and information systems programs at The American University ensure a balanced presentation of the practical and theoretical aspects of computer science. The program provides students with a background that may form the basis for graduate study or for professional employment.

B.A. in Music and Technology

The B.A. in Music and Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the Department of Computer Science and Information Systems and with the Department of Performing Arts. For a description of this program, see listing under Physics in this chapter.

B.S. in Computer Information Systems

This is a rigorous program designed to give students a thorough foundation in both the academic and practical aspects of information systems.

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of seventy-one credit hours with grades of C or better

Required Core Courses

- 55.210 Introduction to Computer Information Systems (3)
- 55.234 Programming Concepts I: COBOL (3)
- 55.235 Programming Concepts II: Advanced COBOL/N (3)
- 55.315 Human Factors in Computer Information Systems (3)
- 55.325 Computer Hardware and System Software (3)
- 55.440 Database Management in Computer Information Systems (3)
- 55.455 Introduction to Systems Analysis (3)
- 55.460 Applied Systems Design (3)
- 55.465 Designing and Writing Computer Documentation (3)
- 55.480 Senior Seminar in Computer Information Systems (3)
- 55.485 Senior Workshop in Computer Information Systems (3)

Required Analytical Skills Courses

- 14.240 Principles of Accounting I (3)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 41.211 Applied Calculus I /N (4)
or
41.221 Calculus I /N (4)
- 42.202 Basic Statistics /N (4)
- 55.432 Introduction to Simulation and Modeling (3)

Note that 19.100 and 19.200 fulfill the General Education requirement in Curricular Area 4, Social Institutions and Behavior. Either 41.211 or 41.221 satisfies the college mathematics Requirement.

Applications Area

- Two courses in an area of application of interest to the student to be approved by an academic adviser (minimum six credit hours). The courses must reflect a substantive area in which the student can apply his or her knowledge of information systems.

Examples of applications areas include but are not limited to the following: international development, scientific information systems, computer science, social-science research, communication, public administration, personnel management, business administration, and arts management.

Elective Courses

- Twelve credit hours from the following:
40.282 Assembly-Language Programming (4)
40.336 Pascal and Elementary Data Structures (3)
40.340 Data Structures and Algorithms (3)
40.345 Software Engineering (3)
40.365 Introduction to Operating Systems (3)
40.510 Legal Issues in Computing (3)
40.568 Artificial Intelligence (3)
40.584 Computer Graphics (3)
55.363 Microcomputer Applications in Computer Information Systems (3)
55.390 Independent Reading in Computer Information Systems (1-3)
55.392 Cooperative Education Field Experience (3)
55.450 Information Storage and Retrieval (3)
55.490 Independent Study in Computer Information Systems (1-3)
55.491 Internship (1-3)
55.532 Advanced Programming Management (3)

Note: No more than three credit hours of Cooperative Education Field Experience, Internship, Independent Study, or Independent Reading may be used to fulfill this requirement.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.S. in Computer Science

This program is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and satisfactory completion (C or better) of 40.280 Introduction to Computer Science I(3), 40.281 Introduction to Computer Science II (3), and 41.221 Calculus I (4)

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of seventy-three credit hours with grades of C or better

Course Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.330 Organization of Computer Systems (3)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- 40.350 Introduction to Discrete Structures (3)
- 40.365 Introduction to Operating Systems (3)
- 40.382 Automata, Languages, and Computability (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 42.202 Basic Statistics /N (4)
- At least five additional courses approved by the student's adviser from the following list:

- 40.320 Introduction to File Design (3)
- 40.345 Software Engineering (3)
- 40.392 Cooperative Education Field Experience (3)
- 40.396 Selected Topics (Nonrecurring) (3)
- 40.460 Introduction to Numerical Methods (3)
- 40.510 Legal Issues in Computing (3)
- 40.541 Computer Architecture (3)
- 40.546 Introduction to Computer Networks (3)
- 40.560 Microcomputer Architecture (3)
- 40.566 Introduction to Compilers (3)
- 40.568 Artificial Intelligence (3)
- 40.570 Data Management Systems (3)
- 40.584 Computer Graphics (3)
- 40.596 Selected Topics (Nonrecurring) (3)
- 41.560 Numerical Analysis: Basic Problems (3)
- 55.432 Introduction to Simulation and Modeling (3)
- 55.440 Database Management in Computer Information Systems (3)
- 55.455 Introduction to Systems Analysis (3)
- 55.460 Applied Systems Design (3)
- A two-semester sequence of laboratory science. Recommended sequences:
 - 51.105 College Physics I /N 5:1 (4)
and
51.205 College Physics II /N 5:2 (4)
 - or
 - 51.110 University Physics I /N 5:1 (4)
and
51.210 University Physics II /N 5:2 (4)
 - or
 - 15.110 General Chemistry I /N 5:1 (4)
and
15.210 General Chemistry II /N 5:2 (4)
 - or
 - 09.110 General Biology I /N 5:1 (4)
and
09.210 General Biology II /N 5:2 (4)
- Two additional science courses, and/or courses with strong emphasis on quantitative methods

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Accreditation

This program is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board

Minor in Computer Science

Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- 41.221 Calculus I /N (4)
- One additional course numbered 40.3xx or above.

Combined B.S./M.S. Program in Computer Science

Students receive a B.S. in Computer Science and an M.S. in Computer Science.

Admission to the Program

Admission is open to undergraduate Computer Science majors with a minimum grade point average of 3.20. Applicants must have completed 40.280, 40.281, 40.282, 40.340, and 40.341 by the end of the junior year.

Degree and Major Requirements

- A minimum of ninety-seven credit hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis

Nonthesis option: six hours of independent research projects, seminars, or other research courses approved by the department

Course Requirements

- All of the requirements for the B.S. in Computer Science
- Six computer science courses at the 500 level or above (not including 40.520, 40.521, or 40.540)
- Six hours of course work to fulfill the thesis or nonthesis option

Combined B.S./M.S. Program in Information Systems

Students receive a B.S. in Information Systems and an M.S. in Information Systems.

Admission to the Program

Admission is open to undergraduates in any field who have an overall grade point average of at least 3.00 at the time of admission and a grade point average of 3.30 in the thirty credit hours taken immediately prior to admission.

Requirements

- All requirements for the B.S. in Information Systems
- All requirements for the M.S. in Information Systems

Two courses, 55.511 Concepts in Systems and Information (3) and 55.515 Human Factors in Information Systems (3), may be applied to both degrees. Students must complete the necessary prerequisites (one semester of mathematics, 55.606 Quantitative Analysis for Information Systems, 55.210 Introduction to Computer Information Systems, and a computer-language course) before taking 55.511 and 55.515, each of which must be completed with a grade of B or better.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Combined B.S./M.S. Program in Mathematics and Computer Science

Students receive a B.S. in Mathematics and an M.S. in Computer Science.

Admission to the Program

Admission is open to undergraduate Mathematics majors with a minimum grade point average of 3.20. Applicants must have completed 40.280, 40.281, 40.282, 40.340, and 40.341 by the end of the junior year.

Degree and Major Requirements

- A total of eighty-nine credit hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis

Nonthesis option: six hours of research courses as approved by the department

Course selections are subject to advance approval by the student's adviser.

Course Requirements

- All requirements for the B.S. in Mathematics
- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- Eighteen credit hours of computer science courses at the 500 level or above, including 40.540 but not 40.520 or 40.521
- Six credit hours of course work to fulfill the thesis or nonthesis option

M.S. in Computer Science

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have an adequate undergraduate preparation or experience in computer science. Students entering the program without the appropriate background will be expected to take certain undergraduate courses as a prerequisite.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- Mathematics, Statistics, French, German, or Russian as a tool of research
- Comprehensive examination, 40.060
- Thesis option: six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis

Nonthesis option: six hours of independent research projects, seminars, or other research courses approved by the department

Course Requirements

- 40.520 Algorithms and Data Structures (3) (or equivalent)
- 40.521 Design and Organization of Programming Languages (3) (or equivalent)
- 40.540 Computer System Organization and Programming (3) (or equivalent)
- Three additional computer science courses at the 500 level or above
- Two additional courses in computer science, or a related field, as approved by the department chair
- Six credit hours of course work to fulfill the thesis or nonthesis option

M.S. in Information Systems

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have taken the equivalent of 40.260 Introduction to Computing or 55.210 Introduction to Computer Information Systems, a semester of college mathematics, and have the ability to program in a structured higher-level language, such as COBOL or Pascal.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work
- Quantitative Analysis for Information Systems, 55.606, as a tool of research
- A comprehensive examination (see thesis and nonthesis options)
- Thesis option: three to six credit hours of 55.797 Master's Thesis Seminar and an oral comprehensive examination

Nonthesis option: 55.665 Analysis and Design Workshop (3), 55.760 Information Systems Seminar (3)

Course Requirements

- 55.511 Concepts in Systems and Information (3)
 - 55.515 Human Factors in Information Systems (3)
 - 55.560 Systems Analysis and Design (3)
 - 55.660 Information Systems Design and Development (3)
 - 55.662 Information Systems Management (3)
 - 55.635 Workshop in Computer Systems Applications: Database Management Systems (3)
or
40.570 Data Management Systems (3)
 - Three related courses approved by a faculty adviser
 - Six credits of thesis or nonthesis option
- Courses taken to satisfy tool of research and thesis or nonthesis option must be passed with a grade of B or better.

M.S. in Statistical Computing

For a description of this program, see listing under Statistics in this chapter.

Graduate Certificate in Information Systems

Admission to the Program

Requires a bachelor's degree from an accredited college or university, the equivalent of 40.260 Introduction to Computing or 55.210 Introduction to Computer Information Systems, a semester of college mathematics, and ability to program in a structured higher-level language, such as COBOL or Pascal.

Requirements

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.606 Quantitative Analysis for Information Systems (3)
- 55.660 Information Systems Design and Development (3)

Course Electives

- 55.662 Information Systems Management (3)
or
55.635 Workshops in Computer Systems
Applications: Database Management
Systems (3)

Economics

Chair Robert Lerman

Full-Time Faculty

Professor B. Bergmann, W.D. Bowles, T.F. Dernburg, J. Epstein, R. Feinberg, W. Hunsberger (Emeritus), R. I. Lerman, R. Müller, L. Sawers, F. Tamagna (Emeritus), P.C. Thanh, H.M. Wachtel, A. Waterston (Emeritus), J.H. Weaver, J. D. Wisman

Associate Professor I.E. Broder, R. Hahnel, M. Hazilla, A. Isaac, J. Willoughby

Assistant Professor R.A. Blecker, T. Husted, M. Floro, F. Graham, J. Lane, M. Meurs, W. Park

Instructor S. Headlee

The Department of Economics at The American University emphasizes economic studies that enable graduates to participate actively in the process of finding answers to the important economic questions that face our society and other nations of the world. Emphasis is placed on viewing economic problems in both their domestic and international contexts.

The university's location in Washington, D.C. enables it to assist students and graduates in obtaining employment and internships in several of the world's most important economic institutions, including the World Bank, the International Monetary Fund, research institutes, and the

treasury, labor, and commerce departments. Many of our graduates are able to find policy-making positions in the public and private sectors of both the United States and other nations.

The Department of Economics adopts a pluralistic approach to economics education that includes neoclassical and Keynesian economics, historical and institutional economics, and political economy. International economic issues receive special emphasis, as do such socially important topics as the economics of gender. The neoclassical and Keynesian traditions form the core of economic theory that our majors are expected to master. The study of economic history, the history of economic thought, and alternative economic methodologies alert students to divergent perspectives and to the role of institutions. Courses in Marxian economic theory and in post-Keynesian economics widen the range of fields available. Courses in specialized fields of economics deal with monetary economics, public finance and government, economic policy, the structure of U.S. industry, international trade and finance, and trends in earnings and employment.

Washington Semester in Economic Policy

This special one-semester program draws on the unique environment of Washington, D.C. to introduce students to governmental policy-making as it relates to international and domestic economic policy through seminars, internships, and research. Students earn undergraduate credit which may be applied toward the requirements for a bachelor's degree.

Admission to the Program

The program is open to students of The American University and to students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a Washington Semester Programs faculty representative; (2) minimum grade point average of 2.50 (on a 4.00 scale); (3) introductory courses in economics; and (4) at least second-semester sophomore standing at the time of participation.

Requirements

- 19.393 Washington Economic Policy Semester Seminar I (4)
- 19.394 Washington Economic Policy Semester Seminar II (4)
- 19.390 Independent Reading Course in Economics (4)
or
19.391 Washington Economic Policy Semester Internship (4)
- One course from the regular university evening offerings

Undergraduate Programs

There are two economics majors: one in Economic Theory and the other in Economics. The Economic Theory major is a rigorous study of economic theory, econometrics, and quantitative skills and is designed to prepare the student for a research position or graduate work in economics. The Economics major combines economic theory with applied fields and is particularly designed to allow the student the flexibility of a double major with other departments in the College of Arts and Sciences, the School of International Service, the Kogod College of Business Administration, the School of Public Affairs and the School of Communication.

Admission to the Programs

Formal admission to the major requires a grade point average of 2.00 and the approval of the department undergraduate adviser. The department counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

B.A. in Economics

Major Requirements

- A total of forty-three credit hours with grades of C or better

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)
- Six courses from department offerings at the 300 level or above

At least one course must be related to the economics of other countries or international economics. No more than six credit hours may be fulfilled by Washington Economic Policy Semester courses, economics courses from American University Study Abroad programs or the honors senior capstone course. Independent reading and study courses require special permission of

the undergraduate adviser. Internships and co-ops will not count toward this requirement.

- Three courses from the 300 level or above selected from the following fields: anthropology, business administration, communication, government, history, international relations, philosophy (but not religion), psychology, justice, sociology, and mathematics (calculus and computing courses offered at the 200 level apply towards this requirement). The specific courses must be approved by the undergraduate adviser.

Recommendations

- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
- 19.310 Introduction to Econometrics (3)
- 19.306 Money and Banking (3)
- 19.311 International Economics /S (3)

Students interested in particular areas may take certain courses to develop a concentration:

Political Economy

- 19.302 Comparative Economic Systems (3)
- 19.317 Political Economy (3)
- 19.322 Marxist Economics (3)

Domestic Policy

- 19.304 Labor Economics (3)
- 19.306 Money and Banking (3)
- 19.309 Public Economics (3)
- 19.312 Industrial Organization (3)

International and Development

- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 19.311 International Economics /S (3)
- 19.371 International Economics: Trade (3)
- 19.372 International Economics: Finance (3)

Special Opportunities

A chapter of Omicron Delta Epsilon, the economics honor society, is active on campus. Membership requires an overall grade point average of 3.25 and a grade point average of 3.50 in economics courses. See the undergraduate adviser for further eligibility requirements.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Economic Theory

Major Requirements

- A total of fifty credit hours with grades of C or better

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 19.310 Introduction to Econometrics (3)
- One of the following:
19.371 International Economics: Trade (3)
19.372 International Economics: Finance (3)
- One of the following:
19.308 History of Economic Development (3)
19.317 Political Economy (3)
19.320 History of Economic Ideas (3)
- 41.211 Applied Calculus I /N (4)
or
41.221 Calculus I /N (4)
- 40.260 Introduction to Computing /N (4)
or
40.280 Introduction to Computer Science I /N (4)
- Five courses from department offerings at the 300 level or above

Of these five, no more than two courses (six credits) may be fulfilled using any combination of the following: Washington Economic Policy Semester, honors senior capstone course, and economics courses from American University Study Abroad programs. Independent study and reading courses require special permission from the undergraduate adviser. Internships and co-ops will *not* count toward this requirement.

- Three courses from the 300 level or above selected from the following fields: anthropology, business, communication, government, history, international relations, justice, sociology, philosophy (but not religion), psychology, and mathematics (41.212, 41.222, and 40.281 apply toward this requirement). Specific courses must be approved by the undergraduate adviser.

Special Opportunities

A chapter of Omicron Delta Epsilon, the economics honor society, is active on campus. Membership requires an overall GPA of 3.25 and a GPA of 3.50 in economics courses. See the undergraduate adviser for further eligibility requirements.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who

complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Economics

Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- Six additional credit hours in economics at the 300 level or above (not including independent study, Washington Semester courses, internships, or co-ops)

Graduate Programs

There are three master's programs in economics: the M.A. in Applied Economics, the M.A. in Development Banking, and the M.A. in Economics. There is a Ph.D. in Economics with tracks in Economics and Political Economy.

Admission to the Master's Programs

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination is recommended. Admission is not automatic for students who qualify and may be limited by programmatic constraints.

A student whose undergraduate background does not meet the standards for admission may be considered for admission after completing twelve credit hours of approved graduate course work in nondegree status with a grade point average of at least 3.00. 19.500 Price Theory and 19.501 Income Theory and 19.505 Quantitative Analysis of Economic Models must be taken within these twelve hours.

M.A. in Applied Economics

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work

Course work includes twelve hours of core requirements, at least six hours of course work within one field of concentration, fifteen hours of electives, including six hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (not pass/fail).

No more than forty percent of course work and no more than six hours of independent study or reading

courses (exclusive of thesis hours) may be taken with any one professor.

- One comprehensive examination in the student's field of specialization. Students are expected to make their first attempt at their field comprehensive before they have completed twenty-four credit hours. Two retakes are allowed. Fields are listed under the Ph.D. program.
- Research seminar or independent research with a grade of B or better is required

Course Requirements

Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301)
- 42.202 Basic Statistics /N (4)
- 41.211 Applied Calculus I /N (4)

Waiver of these prerequisites may be granted for well-qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)
or
19.723 Econometric Methods (3) (42.502 prerequisite) or an approved substitute
- At least six credit hours in a field of concentration.
- Eighteen credit hours in electives approved by the faculty adviser, including six credit hours of research seminar or independent research with grades of B or better. Students must maintain a B average in all graduate course work.

M.A. in Development Banking

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work

Course work includes twenty-seven credit hours of core courses and nine credit hours in an area of concentration. Foundation requirement credit does not count toward the degree.

No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- One of two areas of concentration

Choice of concentration depends on the student's goals, interests, and, if applicable, the needs of the

student's sponsoring organization. In certain cases, upon recommendation of the faculty and approval by the program adviser, students may substitute a course from outside the concentration for one of their courses in an area. Students choose three courses from among those offered in the chosen area of concentration. At least one of the courses must be a workshop and one a research seminar.

- One comprehensive examination covering both core courses and those from the student's concentration area. Two retakes are allowed.

Students should consult the director during the semester before scheduling the comprehensive examination.

- Research projects in two 700-level seminars or independent study research projects, with prior approval of the program director

Course Requirements

Foundation Requirements

- 19.306 Money and Banking (3)
- 14.603 Accounting Concepts and Applications (3)
- 19.603 Introduction to Economic Theory (3)
or
19.300 Price Theory (3) and
19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)
or
19.310 Introduction to Econometrics (3)

Waiver of these foundation requirements may be granted for well-qualified persons

Core Courses

- 13.605 Financial Management (3)
- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.510 Cost Benefit and Planning (3)
- 19.522 Econometrics (3)
- 19.533 Development Banking (3)
- 19.560 Survey of Economic Development (3)
- 19.564 Development Finance (3)

Areas of Concentration

Development Lending

- 19.525 International Economics: Finance (3)
- 19.788 Seminar in Economic Development (3)
- 19.633 Development-Project Cycle (Workshop) (3)
- 19.634 Negotiating Development Loan Contracts (3)

Development Financing

- 13.665 Financial Statement Analysis (3)
- 19.531 Financial Markets (3)

- 19.524 International Economics: Trade (3)
- 19.784 Seminar in International Trade and Finance (3)
- 19.635 International Capital Markets Workshop (3)

Research

- Six credit hours in two 700-level seminars or independent study projects with approval of the program director. Seminars taken for the concentration area requirement may be used to satisfy the research requirement.

M.A. in Economics

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work

Course work includes twelve hours of core requirements, at least six hours of course work within one field of concentration, and twelve hours of electives, including six hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (the pass/fail option is not permitted).

No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- Two comprehensive examinations: 19.01A Contemporary Economic Theory and a field examination based on courses in their field of specialization. Candidates are expected to take the theory examination before they have completed their first eighteen credit hours. Candidates are expected to take the field examination after passing their theory examination and before completing twenty-four credit hours. Students may take each comprehensive twice. Fields are listed under the Ph.D. program.
- Thesis or two nonthesis seminars or two independent research projects which have been approved as a nonthesis option, or one seminar and one independent research project, with a minimum grade of B.

Course Requirements

Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301)
- 42.202 Basic Statistics /N (4)
- 41.211 Applied Calculus /N (4)

Waiver of these prerequisites may be granted for well-qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)
or
19.723 Econometric Methods (3) (42.502 prerequisite) [or an approved substitute]

19.500, 19.501, and 19.522 (or approved substitute) must be completed within the first twelve credit hours with grades of B or better.

19.521 Mathematical Economic Analysis (3) is recommended.

- At least six credit hours in a field of concentration
- Fifteen credit hours including six hours in thesis or nonthesis seminars or independent research with grades of B or better

Ph.D. in Economics

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination general tests (verbal, math, analytical). The GRE test in economics is recommended. Admission is based on academic record, test scores, and two letters of recommendation. Applicants who are not native speakers of English must submit the results of TOEFL (Test of English as a Foreign Language). In general, a B average for previous undergraduate work or a B+/A- average for previous graduate work, whichever is more recent, is the minimum required. (Most students admitted have higher grade averages.) As a rule, students are admitted for the fall semester only; application must be made by the previous February 1.

Tracks

Economics and Political Economy

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work

No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- Tools of research:
19.504 Economic Thought (3)
19.521 Mathematical Economic Analysis (3)
19.507 American Economic Development (3)
or
19.508 European Economic Development (3)

Economics track students must also take the following:

42.502 Introduction to Mathematical Statistics (3)

19.723 Econometric Methods (3) (Prerequisite: 42.502)

19.724 Seminar in Econometrics (3)

Political Economy track students must also take one of the following:

19.522 Econometrics (3)

or

19.723 Econometric Methods (3) (prerequisite: 42.502)

Political Economy track students must also take one of the following:

19.774 Seminar in Economic Thought (3)

19.721 Advanced Mathematical Economic Analysis (3)

19.724 Seminar in Econometrics (3)

- An oral qualifying examination in economic theory no later than one semester before the comprehensive examinations are taken. This examination is waived for students who have completed certain theory courses. See adviser for details.

- Four comprehensive examinations:

Economics track: four comprehensive examinations are required: 19.01B, 19.01C, and comprehensive examinations in two elective fields

Political Economy track: four comprehensive examinations are required: 19.006, 19.06A, and comprehensive examinations in two elective fields

Comprehensive Examination Fields: 19.01B Contemporary Economic Theory: Price; 19.01C Contemporary Economic Theory: Income; 19.002 History of Economic Thought; 19.005 History of Economic Development; 19.006 Theory of Political Economy I; 19.06A Theory of Political Economy II; 19.007 Economic Growth and Development; 19.07A Economic Development Policy (not open to students in the Department of Economics); 19.008 Labor Economics; 19.009 International Economics; 19.010 Economics of Gender; 19.011 Comparative Economic Systems and Soviet-type Economies; 19.013 Monetary Economics; 19.013A Quantitative Economics; 19.014 Public Finance and Fiscal Policy; 19.016 Mathematical Economics; 19.017 Econometrics; 19.018 Industrial Organization; and 19.020 Development Banking. See adviser for specific course requirements for each comprehensive examination field.

- Dissertation and oral comprehensive

The student obtains approval for the dissertation topic from an interested faculty member in the field who then becomes chair of the dissertation committee. This committee, especially the chair, supervises the preparation of the dissertation and reviews it when it is completed. An oral comprehensive examination on the dissertation proposal is given by the committee before its submission for approval. The dissertation seminar (19.799) is offered to assist students in the preparation of their proposals (the dissertation seminar 19.799

must be taken pass/fail.) After the completed dissertation is submitted to the committee, a final oral examination is held.

Special Opportunities

The Simon Nadel Dissertation Fellowship and the Center of Excellence Dissertation Fellowship are awarded annually to the most promising dissertation proposals. The Simon Nadel Prize of one hundred dollars is awarded annually to the student who has written the most outstanding comprehensive examination, as judged by the faculty of the department.

Graduate Certificate in Applied Economics

Admission to the Program

Open to students with a bachelor's degree

Course Requirements

Prerequisites

19.100 Macroeconomics /S 4:1 (3)

19.200 Microeconomics /S 4:2 (3)

19.300 Price Theory (3)

19.301 Income Theory (3)

42.202 Basic Statistics /N (4) (may be waived on the basis of previous education or experience)

Requirements

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.522 Econometrics (3)
- Twelve credit hours from the following:
 - 19.510 Cost Benefit and Planning (3)
 - 19.521 Mathematical Economic Analysis (3)
 - 19.532 Monetary Theory and Policy (3)
 - 19.541 Public Economics I (3)
 - 19.551 Theory of International Trade and Multinational Corporations (3)
 - 19.560 Survey of Economic Development (3)
 - 19.571 Labor Economics: Theory (3)

Other approved electives may be substituted.

School of Education

Dean Charles A. Tesconi, Jr.

Full-Time Faculty

Professor S. Burr (Emeritus), C.A. Gross (Emeritus), B.A. Hodinko, F. Holliday (Emeritus), F. Jacobs, P.D.

Leedy (Emeritus), N.J. Long, D. Sadker, M. Sadker, S.L. Smith, C.A. Tesconi, Jr.

Associate Professor L. Clark, A.S. Ferren, F.E. Huber (Emeritus), C.E. Messersmith, D.D. Miller (Emeritus), R. Ralph

Assistant Professor E. Smith

Research Faculty

Research Associate Professor S. Denbo

The School of Education conducts rigorous and innovative preparation for aspiring teachers and other education professionals as well as diverse research projects that focus on both national and international educational issues. Graduate and undergraduate students have opportunities to acquire directed career preparation in research and teaching through internships in educationally-oriented national associations, to receive early and continuous contact with children and youth in a wide variety of public and private school settings, or to work in renowned university-related schools for students who are learning disabled or emotionally disturbed. Limited enrollment and selective admissions criteria allow the School of Education to emphasize early and sustained contact with children and youth with study and supervision under master teachers in curricula especially tailored to individual career goals.

Undergraduates in the School of Education may major in Elementary Education, or take a sequence of courses leading to certification in secondary education. Undergraduate minors in Education Studies and Special Education are offered. A combined Bachelor's/M.A. program enables students to earn B.A. in Elementary Education or a Bachelor's degree with a program of study in secondary education and an M.A. in Education with a specialization in Special Education: Learning Disabilities or Special Education: Emotional Disturbance. Graduates are eligible for teacher certification in most states.

Undergraduates who wish experience in nonteaching educational settings may do so in education associations, local and federal government agencies, publishing companies, education-for-the-handicapped agencies, and others. This may be done through the Washington Internship in Education. The teacher preparation programs and the Washington Internship in Education program benefit from the rich resources of the Washington area, where the headquarters of many national education organizations, the education agencies of the federal government, and several urban and suburban school systems are located.

Students who wish to pursue graduate studies may select from several programs. The M.A. in Education offers specializations in Educational Administration, International Education, Special Education: Emotional Disturbance, Special Education: Learning Disabilities, and Student Development in Higher Education. The specialization in Special Education: Learning Disabilities emphasizes close and continuing relationships with local schools, practicum experience under master teachers, innovative teaching methodologies, and working experience with special-needs students of primary school age through adults.

The M.A. in Elementary Education provides liberal-arts and science graduates with a program of study directed to teaching in elementary schools.

The Master of Arts in Teaching (M.A.T.) program enables liberal-arts and science graduates to continue course work in their academic discipline as well as in professional education courses relevant to secondary-school teaching.

Doctoral programs are offered in Educational Administration and Counseling and Development.

B.A. in Elementary Education

Admission to the Program

Due to the number of requirements necessary for certification, it is recommended that undergraduates planning to teach declare their major in elementary education as early as possible and no later than the end of their sophomore year.

Admission to the university and declaration of a major does not automatically admit one to a program in teacher education.

After declaration of a major in elementary education, students must also be admitted to the School of Education's Teacher Education Program.

Continuous Selection Criteria

1) Students desiring admission to the Teacher Education Program must successfully complete the following professional education courses: 21.200 Schools and Society /S 4:2 (3), 21.320 Psychology of Education (3), and 21.321 Field Experience: Observation and Analysis (1). Elementary Education majors normally enroll in these courses during the sophomore year, while those planning to teach in secondary schools must enroll no later than the fall semester of the junior year.

2) Students submit applications to the School of Education for admission to the Teacher Education Program. Application forms are available at the School of Education. Admission requirements at this stage are (a) a cumulative grade point average of 2.70 or better, (b) letters of recommendation by faculty, and (c) recommendation by the student's academic adviser. Secondary education students must also have a grade point average of 3.00 in their major. Elementary education students must be admitted to the Teacher Education Program prior to enrollment in the elementary methods courses.

3) To remain in the Teacher Education Program, a student must maintain a cumulative grade point average of 2.70 or better (plus a grade point average of 3.00 in majors for secondary education students) and receive satisfactory evaluations on methods and student-teaching field placements. In order to be permitted to enroll in 21.599 Student Teaching, students must have a cumulative average grade point average of 2.70 and receive a positive evaluation from faculty supervisors. Evaluation of field performance may involve videotaping of classroom lessons. Students will do student teaching in the District of Columbia and the greater metropolitan area.

University Requirements

- A total of 120 credit hours

- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline
- Consult with an adviser from the School of Education as early as possible to discuss the coordination of General Education Requirements with certification requirements

Major Requirements

- A total of fifty-eight credit hours of major course requirements with grades of C or better and thirty-nine to forty-four credit hours of general course requirements
- A cumulative grade point average of 2.70 and satisfactory performance evaluations.
- A grade point average of 3.0 in the major is required for secondary education students. (See Admission to the Program above.)

Note: Students should meet with their School of Education advisers for specific information concerning fulfillment of these requirements. Students must comply with current education curriculum requirements

- 41.150 Finite Mathematics (3)
- Three additional credit hours in mathematics or statistics and probability
- Six credit hours in literature
- Three credit hours in music
- Three credit hours in art
- Three credit hours in health and nutrition
- Three credit hours in health and fitness
- Six credit hours in history including three in U.S. history
- Three credit hours in the biological science
- Three credit hours in the physical sciences

Major Course Requirements

- 21.200 Schools and Society /S 4:2 (3)
- 21.250 Mathematics for Elementary School Teachers (3)
- 21.319 Children's Literature: Multicultural and International Approaches (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1) (taken concurrently with 21.200 or 21.320)
- 21.330 Speech and Generic Teaching Methods (3)

- 21.371 Theories of Reading (3)
- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.552 The Teaching of Mathematics in Elementary Education (2)
- 21.553 The Teaching of Language Arts in Elementary Education (2)
- 21.554 The Teaching of Social Studies in Elementary Education (2)
- 21.555 The Teaching of Reading in Elementary Education (3)
- 21.556 The Teaching of Science in Elementary Education (3)
- 21.599 Student Teaching (15)
- Two of the following courses:
21.212 Methodology of Sign Language /A (3)
21.325 Global Education (3)
21.372 Methods and Practicum in Early Childhood Development (2)
21.389 Sexism in School and Society: National and International Perspectives /S (3)
21.390 Independent Reading Course in Education (1-6)
21.402 Methods of Teaching Children with Learning Disabilities (3)
21.490 Independent Study Project in Education (1-6)
21.491 Internship in Education (6-9)
21.519 Computers in Education (3)
67.450 Rotating Topics in Theatre: Children's Theatre/
Creative Dramatics (3)
57.350 Child Psychology (3)

Other courses approved by an elementary education adviser, the director of the undergraduate program, or the dean of the School of Education.

Note: Completion of this or a similar program is required to meet most state certification requirements in elementary education. The professional aspects of the program have been carefully designed, but graduation does not assure one a position as a teacher. The American University does not license one to teach in any state; such certifications are issued only by a state government agency. Students are responsible for selecting courses to obtain certification in their chosen states and the District of Columbia. Certification requirements should be examined no later than the beginning of the student's sophomore year.

Consult an adviser regarding certification matters.

Note also: Students are responsible for providing transportation, either public or private, to their student observation, practicum, and student teaching

assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the major will, upon the school's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Accreditation

The program is approved by the National Council for Accreditation of Teacher Education (NCATE) and the National Association of State Directors of Teacher Education and Certification (NASDTEC). Consult "A Student's Guide to Undergraduate Programs in the School of Education" for further information.

Secondary Education Certification

Students major in the field they plan to teach and take a formal sequence of School of Education courses required for certification. All students must meet all Teacher Education Program application requirements and deadlines.

Course Requirements

- 21.200 Schools and Society /S 4:2 (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1) (taken concurrently with 21.200 or 21.320)
21.200, 21.320, and 21.321 must be taken prior to application for admission to the Teacher Education Program.
- 21.340 Methods and Materials in Secondary Education: General and Special: Biology, Dance, English, Social Studies, Mathematics, Foreign Languages, Theatre (3) (or other approved methods courses offered by arts and sciences departments)
- 21.599 Student Teaching (12) (appropriate section)
- 21.541 Foundations of Special Education for Exceptional Children (3)
or
21.545 Overview of all Exceptionalities: The Arts in Special Education (3)
- For students planning to teach English or social studies (highly recommended for others):

21.371 Theories of Reading (3)

21.330 Speech and Generic Teaching Methods (3) (optional)

Note: Students are responsible for providing their own transportation to observations, practicum, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

Accreditation

The following secondary teacher education programs are approved for accreditation by both NASDTEC (National Association of State Directors of Teacher Education and Certification) and NCATE (National Council for the Accreditation of Teacher Education): English, French, Spanish, Mathematics, Biology, Drama, and Dance. Accredited by NASDTEC only: Comprehensive Social Studies

Minor in Education Studies

The minor in Education Studies accommodates undergraduate students interested in the study of Education as a liberal or social science discipline. It serves well students who intend to pursue graduate study in Education or related fields, those who wish to explore career opportunities in Education and related fields, and those whose primary job and career opportunities are enhanced through the study of Education Studies.

Admission to the Program

Formal admission to the minor requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students will typically be admitted to the minor at the end of the sophomore year or after four semesters of study but before the completion of six semesters. The School of Education faculty will counsel students who inquire about the minor.

Minor Requirements

- A total of twenty-one credit hours (seven courses) with grades of C or better.

Course Requirements

- 21.200 Schools and Society (3)
- 21.320 Psychology of Education (3)
- Six credit hours from the following:
 - 21.205 Education for International Development (3)
 - 21.319 Children's Literature (3)
 - 21.325 Global Education (3)
 - 21.389 Sexism in School and Society (3)
- Nine credit hours from the following:

- 21.490 Independent Study Project in Education (1-6)
- 21.491 Internship in Education (1-6)
- 21.496 Special Topics: Current Policy Issues (1-6)
- 21.503 Theories and Practices in Special Education (3)
- 21.519 Computers in Education (3)
- 21.521 Foundations of Education (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.551 Counseling Skills in Training and Development (3)
- 21.561 Introduction to Student Development in Higher Education (3)
- 21.566 Cultural Factors in Higher Education (3)
- 21.583 Curriculum Construction and Program Design (3)
- 21.587 Analysis of Instruction and Training (3)

Minor in Special Education

Admission to the Program

Formal admission to the minor requires a cumulative grade point average of 2.70 (on a 4.00 scale), a grade point average of 3.00 in the major, and successful completion (C or better) of 21.200 Schools and Society /S 4:2 (3), 21.320 Psychology of Education (3), and 21.321 Field Experience: Observation and Analysis (3).

Requirements

- Eighteen credit hours from the following:
 - 21.402 Methods of Teaching Children with Learning Disabilities (3)
 - 21.490 Independent Study in Education (3-6) or
 - 21.492 Internship in Education (3-6)
 - 21.502 Methods of Managing Pupils with Behavior Disorders (3)
 - 21.541 Foundations of Special Education for Exceptional Children (3)
 - 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

Other courses approved by education adviser, the director of the undergraduate program, or the dean of the School of Education.

Combined Bachelor's/M.A. Programs in Education

Students receive a of B.A. in Elementary Education or a B.S. or B.A. with a program of study in secondary education, and a M.A. in Education with a specialization in Special Education: Learning Disabilities or Special Education: Emotional Disturbance.

Admission to the Program

Students should apply to the M.A. program in the second semester of the junior year. Applicants must have a grade point average of 3.00 in major and minor courses, must have completed satisfactorily 21.402 Methods of Teaching Children with Learning Disabilities (3), 21.502 Methods of Managing Pupils with Behavior Disorders (3), and 21.541 Foundations of Special Education for Exceptional Children (3); and must be recommended by the director of the program in Special Education: Emotional Disturbance or Special Education: Learning Disabilities.

Requirements

- All requirements for the B.A. in Elementary Education or B.A. or B.S. with Secondary Education Certification courses
- All requirements for the undergraduate minor in Special Education
- All courses required for the M.A. in Education's track in Special Education: Learning Disabilities or track in Special Education: Emotional Disturbance
- 21.502 Methods of Managing Pupils with Behavior Disorders (3) and
- 21.541 Foundations of Special Education for Exceptional Children (3) and 21.545 Overview of All Exceptionalities: The Arts in Special Education are taken at the undergraduate level but apply to the requirements for both the B.A. and the M.A.
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

M.A. in Education

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test. Additional admission requirements may be imposed by the School of Education. Applicants are encouraged to consult with the school before applying.

Tracks

Educational Administration, International Education, Special Education: Emotional Disturbance, Special Education: Learning Disabilities, Student Development in Higher Education and Specialized Studies

Degree and Major Requirements

- The M.A. in Education requires between thirty and forty-two credit hours of approved graduate work
- All tracks include comprehensive examinations. Consult program adviser for details.
- All tracks include research, practicum, or internship.

Course Requirements**Educational Administration**

- A total of thirty-three credit hours
- Fifteen credit hours in the major field including:
 - 21.631 Introduction to Administration in Education, Training, and Development (3)
 - 21.639 Administrative Effectiveness Workshop (3)
- Twelve credit hours of electives
- Six credit hours to satisfy the nonthesis option

International Education

(There are two tracks within International Education.)

- A total of thirty-six credit hours

Development Education

- 21.635 Training Program Design (3)
- 33.637 International Development (3)
- 21.678 Comparative and International Education (3)
- 21.679 Nonformal Education and Development (3)

Global and Intercultural Education

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global Education (3)
- 33.642 Cross-Cultural Communication (3)
- 21.678 Comparative and International Education (3)

Research Requirement for Both Tracks

- Six credit hours in:
 - 21.792 In-Service Training Project: Internship in Education (6)
 - or
 - 21.525 Introduction to Statistics, Tests, and Measurement (3) and
 - 21.693 Program and Training Evaluation (3)
 - or
 - 21.790 Educational Research (3)
 - or
 - two courses at the 600 level or above with the adviser's permission
- Eighteen credit hours from a list of recommended courses or those approved by adviser.

Special Education: Emotional Disturbance

- A total of thirty-six credit hours
- 21.501 Language Arts and Social Studies Curricula in Special Education (3)
- 21.502 Methods of Managing Pupils with Behavior Disorders (3)

- 21.503 Theories and Practices in Special Education (3)
- 21.504 Methods of Psychoeducational Assessment (3)
- 21.606 Theories and Methods in Diagnostic and Remedial Mathematics (3)
- 21.607 Research Seminar in Special Education (3)
- 21.615 Educational Issues and Approaches in Gifted Education (3)
- 21.620 Theories of Educational Psychology (3)
- 21.645 Learning Disabilities I (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)
- 21.792 In-Service Training Project: Internship with Emotionally Disturbed Children (3-6)

Special Education: Learning Disabilities

- A total of thirty-six credit hours
- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- or
- 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.599 Student Teaching (6)
- 21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.607 Research Seminar in Special Education (3)
- 21.644 Language Development and Remediation (3)
- 21.645 Learning Disabilities I (3)
- 21.646 Learning Disabilities II (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)
- 21.792 In-Service Training Project: Internship with Learning Disabled Children (3-6)
- One elective

Student Development in Higher Education

- A total of thirty-six credit hours
- Fifteen credit hours in the major field
- Six credit hours in the psychology, foundations, history, or sociology of education; curriculum construction; or analysis of teaching
- Three credit hours in statistics, tests, and measurements (or approved equivalent)
- Six additional credit hours

- 21.790 Educational Research (3) and three additional credit hours of research, practicum or internship

Specialized Studies

- A total of thirty credit hours

This track is to be used for specially designed master's programs. Consult an education adviser for further information.

Accreditation

The Special Education: Learning Disabilities Track is accredited by NCATE/NASDTEC.

M.A. in Elementary Education

The M.A. in Elementary Education is designed to prepare students with bachelor's degrees in the liberal arts and sciences for careers and teaching certification at the elementary level.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Miller Analogies Test or GRE.

Degree and Major Requirements

- Forty-two credit hours of approved graduate work
- Thirty-three credit hours of course work
- Nine credit hours of student teaching including a student teaching seminar
- Comprehensive examination

Course Requirements

- 21.502 Managing Pupils with Behavior Disorders (3)
- 21.521 Foundations of Education (3)
- 21.545 Overview of All Exceptionalities: Arts in Special Education (3)
- 21.552 The Teaching of Mathematics in Elementary Education (2)
- 21.553 The Teaching of Language Arts in Elementary Education (2)
- 21.554 The Teaching of Social Studies in Elementary Education (2)
- 21.555 The Teaching of Reading in Elementary Education (3)
- 21.556 The Teaching of Science in Elementary Education (3)
- 21.599 Student Teaching (9)
- 21.619 Children's Literature: Multicultural and International Approaches (3)
- 21.620 Theories of Educational Psychology (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)

- One elective (3)

Students must demonstrate competency in the liberal arts and sciences. Student undergraduate transcripts will be evaluated individually; based on this evaluation students may be required to take additional course work in the liberal arts and sciences.

Note: All course work must be approved by an adviser and must include six credit hours of research, practicum, or internship.

Accreditation

The M.A. in Elementary Education is accredited by NASDTEC (National Association of State Directors of Teacher Education and Certification).

Master of Arts in Teaching (M.A.T.)

The M.A.T. is designed for students with a bachelor's degree in the liberal arts and sciences who wish to acquire teaching certification in secondary education.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Miller Analogies Test or GRE and must complete sufficient course work in an academic area traditionally taught in secondary schools, such as biology, chemistry, English, dance, mathematics, social studies, science, French, Spanish, theatre, and physics.

Degree and Major Requirements

- A total of thirty-nine credit hours of approved graduate work, including fifteen hours in a liberal arts major, eighteen hours in education, and six hours in a teaching practicum or internship
- Comprehensive examination

Course Requirements

- 21.521 Foundations of Education (3)
- 21.620 Theories of Educational Psychology (3)
- 21.502 Managing Pupils with Behavior Disorders (3)
- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.522 Principles of Effective Instruction (3)
- 21.599 Student Teaching (6)
- Five electives in the academic discipline of the designated teaching area (15)

Accreditation

The Master of Arts in Teaching (M.A.T.) is accredited by NASDTEC (The National Association of State Directors of Teacher Education and Certification).

Doctoral Programs in Education

The School of Education accepts candidates for the degrees of Doctor of Education and Doctor of Philosophy with specializations in Counseling and Development and in Educational Administration (See the Mathematics section of this publication for Ph.D. in Mathematics Education). Applicants should consult with the school for information regarding other areas of emphasis.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a master's degree and must earn a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test. Specific standards may be obtained from the School of Education.

Degree and Major Requirements

- At least seventy-two credit hours of approved graduate work
- Ph.D. candidates: two tools of research: one in statistics or educational statistics (see note below) and a second in computer language, sign language, a foreign language, or another field approved by the school
- Ed.D. candidates: one tool of research in statistics, educational statistics (see note below), computer language, sign language, a foreign language, or another field approved by the school

Note: The research tool in educational statistics consists of 21.525 (or approved equivalent taken at another university) and 42.514 in which a grade of B (3.0) or better must be earned.

- Four comprehensive examinations: two written, one oral, one written or oral

Counseling and Development: 21.011 Counseling, 21.017 Student Development, 21.019 Counseling and Student Development (oral), and one additional examination either in or outside the School of Education.

Educational Administration: Candidates for either the Ph.D. or Ed.D. degree must take comprehensive examinations in educational administration. Candidates for the Ph.D. must take an examination in one support field in the School of Education; the second support field examination may be taken either inside or outside the school. Candidates for the Ed.D. must take examinations in two support fields, both of which may be in the School of Education.

Candidates should consult their advisers concerning the comprehensive examinations. The candidate must make the necessary arrangements with the appropriate department for examinations taken outside the School of Education. Comprehensive areas outside the school include, but are not limited to: clinical psychology, history, management, sociology, government, and statistics.

- Dissertation and oral defense. The dissertation research must be directed by a member of the full-time faculty.

Course Requirements

- 21.790 Educational Research (3)
- One graduate-level course in statistical methods beyond the master's requirement.

Students whose dissertations involve quantitative research must take additional course work in statistics.

- Twelve hours of dissertation research

Specific courses are required for all doctoral study areas. Students must have an approved program of study that reflects these requirements. All programs of study must be approved by the dean of the School of Education.

Health and Fitness

Chair Robert C. Karch

Full-Time Faculty

Professor R.H. Frailey (Emeritus), D.S. Geiser (Emeritus), V.E. Hawke (Emerita) J.W. Hubbell (Emerita), R.C. Karch

Associate Professor B.G. Coward, Patricia O'Connor-Finn, R.E. McFeeter (Emerita), L.G. Nyce, B.J. Reimann

Assistant Professor L.C. Campanelli, P. Mehlert, J.R. Rogers, B.L. Seaward.

The Department of Health and Fitness provides opportunities for students to learn about and experience aspects of fitness, movement, and sport that last throughout a lifetime of physical activity. The diversity of courses emphasizes the development of physical skills and the acquisition of cognitive understanding. Students are urged to participate in these courses early in their college years so that they might acquire the skills and knowledge to reduce the pressure of a busy, stress-filled schedule.

To achieve these goals, students need to attain the levels of fitness and skills that are the requisites for sports activities. In addition to psychomotor skill development, students must also acquire an understanding of fitness and wellness as they apply to their individual lifestyles.

Fitness and sport skills that can be enjoyed throughout life should be part of the education of the American Uni-

versity student. Students are encouraged to explore the interdisciplinary relationship between courses of this department and those of other schools and departments of the university.

M.S. in Health/Fitness Management

The primary objective of the Health/Fitness Management Program is to provide a competency based, multidisciplinary academic track for individuals dedicated to assuming leadership positions within the health-fitness industry. The curriculum integrates managerial skills with scientific and clinical knowledge of exercise physiology, human biochemistry, behavioral psychology, and nutrition.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Management Admissions Test (GMAT) or the Graduate Record Exam (GRE) and must satisfy program prerequisites in human anatomy and physiology and exercise physiology.

The program is open to students with varied undergraduate backgrounds and has few science-related academic prerequisites. The academic record and experience of each applicant will be thoroughly reviewed by the program director.

International applicants who are fluent in written and spoken English are welcomed and encouraged to apply. To be considered for admission, applicants must meet university requirements for writing and speaking English.

All applicants must submit an additional reference and a supplementary graduate application directly to the Department of Health and Fitness. Additional information can be obtained by calling (202) 885-6275.

Degree and Major Requirements

- A total of forty-two credit hours of graduate work
- One tool of research
- Thesis or internship
- One written and one oral comprehensive examination

Course Requirements

- 10.610 Organizational Theory and Behavior (3)
- 15.506 Human Physiological Chemistry (3)
- 21.551 Counseling Skills in Training and Development (3)
- 49.610 Applied Human Physiology and Testing I (3)
- 49.615 Applied Human Physiology and Testing II (3)
- 49.618 Strategic Planning in Health Promotion (3)
- 49.640 Nutrition for Health/Fitness (3)
- 49.790 Selected Topics in Health/Fitness Management (3)

- 49.791 Research Methodology in Health/Fitness (3)
- 49.792 In-Service Training in Health/Fitness Management (3)
or
49.797 Master's Thesis Seminar in Health/Fitness Management (3)
- 54.654 Organization Diagnosis and Intervention (3)
- 55.511 Concepts in Systems and Information (3)
- 57.570 Behavioral Medicine (3)
- A statistics tool-of-research examination or a graduate-level statistics course completed with a B or better (three credit hours approved by the department: e.g., 42.514 Statistical Methods).

Special Opportunities and Facilities

The branches, agencies, and offices of the federal government and the many centers and organizations dealing with health, education, business, and physical fitness provide numerous internship and cooperative-education opportunities for students in the Health/Fitness program. Within minutes of the campus are: the Department of Health and Human Services, the National Institutes of Health, the National Institute of Aging, the President's Council on Physical Fitness and Sports, and the National Library of Medicine.

The Master of Science program in Health/Fitness Management is an integral part of The American University's National Center for Health/Fitness. Students in the program share many of the center's resources and facilities. These include experiential learning opportunities in the areas of comprehensive health promotion programming, cost-benefit research, and strategic planning initiatives for organizations interested in worksite health promotion. In addition, the center has a human performance laboratory with the state-of-the-art diagnostic equipment for assessment of cardiovascular fitness and pulmonary function; a physical-fitness center fully equipped to accommodate all forms of human conditioning; a body-composition laboratory with modern hydrostatic weighing facilities; a recording studio for production of health/fitness-promotion materials and performance evaluations; and computer communication systems.

History

Chair Roger Brown

Full-Time Faculty

Professor C. Anthon (Emeritus), R.L. Beisner, R.D. Breitman, R.H. Brown, D. Gondos (Emerita), J. Joughin

(Emerita), A.M. Kraut, A.J. Lichtman, C.C. McLaughlin, J. Oppenheim

Associate Professor V. French, I. Klein, J.A. Malloy, P.S. Nadell, T. Murphy, M. Kazin

Assistant Professor S. Haine, P. Kuznick

Research Faculty

Research Professor C. Beveridge

Landmarks Scholar, Spring 1992

History is the record of the past and the academic discipline of those making a serious study of the past. Studying history means examining the full range of human endeavor: the arts and sciences; politics and the spread of political ideas across boundaries of space and time; economic and technological change; and the relationships of individuals and groups to their communities and cultures. Anyone concerned with the contemporary world cannot comprehend its problems without some awareness of how it differs from past eras.

As part of the humanities, history includes all forms of creative thought and expression. At the same time, it requires as much rigor in the use and analysis of evidence as any social science.

Both the undergraduate and graduate programs in history emphasize interdisciplinary study and close contact between students and faculty. Students have easy access to such great research collections as the Library of Congress, the National Archives, and the National Library of Medicine. Internships are available in historical agencies, congressional offices, and such varied organizations as the Textile Museum, the U.S. Supreme Court, and the Smithsonian. Besides preparing students for careers in teaching and scholarship, or for admission to law schools, the Department of History's rigorous training in research, writing, and intellectual problem-solving equips graduates for excellent placement in business, government, public-interest associations, journalism, and many other professions.

B.A. in History

Admission to the Program

Formal admission to the major requires departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of thirty-nine credit hours with grades of C or better including at least fifteen credit hours at the 300 level or above. The department recommends that before enrolling in a course at the 300 level or above, students should complete a suitable introductory course, or attain equivalent knowledge.

Course Requirements

- 29.480 Major Seminar I (3)
- 29.481 Major Seminar II (3)
- One course in ancient or medieval history
- One course in Russian, Asian, African, or Latin American history
- One course in U.S. States history at the 300 level or above
- One course in Western European or British history at the 300 level or above
- Additional courses to make a total of thirty-nine credit hours in history, at least twenty of which must be taken at The American University

Special Opportunities

Dorothy Ditter Gondos Award; internships

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in History

Requirements

- One course in Western European or British history at the 300 level or above
- One course in U.S. history at the 300 level or above
- One course in the history of an area other than those mentioned above
- Four more courses in history, including at least two at the 300 level or above. The department requires that all 300-level courses be taken at The American University.
- At least twelve of the twenty-one credit hours in history must be taken at The American University. The university requires that no more than six hours in history, credited toward the major in another department, be counted towards a minor in history.

Combined B.A./M.A. Program in History

The program enables students to complete both the B.A. and M.A. in history in five years.

Admission to the Program

Students will be admitted formally to M.A. status only if they have completed all requirements for the B.A. in History with strong grades (3.0 cumulative grade point average and a 3.2 in history courses). Students should apply for admission to the program in their junior year. Those students moving to M.A. standing will be exempt from the usual Graduate Record Examination requirement.

Requirements

- All requirements for the B.A. in History
- All requirements for the M.A. in History

Students may apply six credit hours of course work in history to satisfy the requirements of both degrees.

M.A. in History

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (Verbal, Quantitative, and Analytic) and must have made a substantial beginning in one tool of research. Admission is based on academic record, test scores, letters of recommendation from two professors with whom work was taken recently, and favorable judgment of the department graduate committee and chair.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- One of the following as tool of research: foreign language, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History
- One comprehensive examination
- Thesis option: a satisfactory thesis, completed through six hours of 29.797 Master's Thesis Seminar and one research seminar (with a grade of B or better)

Nonthesis option: two substantial research papers done in research seminars (with grades of B or better)

Course Requirements

- Two sections of 29.500 Studies in History with grades of B or better. New graduate students are normally expected to take at least one section of 29.500 in their first year of study.
- Two colloquia from the following with grades of B or better:

29.720 Colloquium in Modern European History 1789-1945 (3)

29.727 Colloquium in United States History I: to 1865 (3)

29.728 Colloquium in United States History II: since 1865 (3)

or approved substitute

- Thesis option:
29.797 Master's Thesis Seminar (6)

Three credit hours from the following:

29.751 Research Seminar in European History (3)

29.752 Research Seminar in United States History (3)

or approved substitute

Nonthesis option:

Six credit hours from the following:

29.751 Research Seminar in European History (3)

29.752 Research Seminar in United States History (3)

or approved substitute

- Courses selected to fulfill either (1) a single-field program in United States or modern European history, or (2) a two-field program with a major field (eighteen credit hours) and a minor field (twelve credit hours).
- No more than 50% of course work may be done in 300/600 level courses

Special Opportunities

Internships at the National Archives, U.S. Government agencies, and local historical societies.

Landmarks Graduate Fellowship (See "Financial Aid" in this catalog.)

Ph.D. in History

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants normally have completed an M.A. in History or a related field, have earned a satisfactory score on the Graduate Record Exam (Verbal, Quantitative, and Analytic), and have made a substantial beginning in one tool of research. Admission is based on academic record, letters of recommendation from two professors with whom work was taken recently, a sample of recent written work of substantial length (M.A. thesis, research paper, or interpretative essay) and favorable judgment of the department's graduate committee and department chair.

Degree and Major Requirements

- A total of seventy-two (including thirty for the M.A.) credit hours of approved graduate work
- Two of the following as tools of research: foreign languages, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History

- Four comprehensive examinations: three written and one oral. Comprehensive examinations are offered in the areas of ancient history, United States history, modern European history, British history, Latin American history, modern Asian history, Russian history, and diplomatic history. One comprehensive examination must be in one of the following: a historical field outside the student's main area of concentration, a comparative cross-disciplinary field, or a field in another discipline.
- Dissertation and oral defense (Dissertation work is not usually available in ancient, Russian, or Latin American history)
- Advancement to candidacy after completion of comprehensive examinations and at the time the dissertation proposal is approved

Course Requirements

- Two sections of 29.500 Studies in History with grades of B or better (students receiving an M.A. in History from The American University are required to take only one section). New graduate students are normally expected to take at least one section of 29.500 in their first year of study.
- Two of the following with a grade of B or better (students receiving an M.A. in History from The American University are required to take only one):
29.720 Colloquium in Modern European History, 1789-1945 (3)
29.727 Colloquium in United States History I: to 1865 (3)
29.728 Colloquium in United States History II: since 1865 (3)
or approved substitute
- Two research seminars for six credit hours from the following with grades of B or better:
29.751 Research Seminar in European History (3)
29.752 Research Seminar in United States History (3)
or approved substitute
- At least twelve hours of dissertation seminar

Information Systems

(See program description under Computer Science and Information Systems)

Interdepartmental Science

Coordinator Chair of department of major science or mathematics

Faculty Faculties of the departments of Biology, Chemistry, Computer Science and Information Systems,

Mathematics and Statistics, Physics, Psychology, and of the School of Education

B.S. in Distributed Science

Admission to the Program

No unique admission requirements

Tracks

Biology, Chemistry, Mathematics, Physics, and Psychology

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas

No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of seventy-four credit hours with grades of C or better

Course Requirements

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- Two courses selected from: anthropology, economics, philosophy, 40.280 Introduction to Computer Science I /N (4), 40.281 Introduction to Computer Science II /N (4), and 57.115 Experimental Foundations of Psychology (3)
- Twenty-six credit hours in one area of science or mathematics
- Twelve credit hours in a second area of science or mathematics
- Eight credit hours in a third area of science or mathematics
- Eight credit hours in a fourth area of science or mathematics
- Six additional credit hours in either the first or second area of science or mathematics

Courses should be taken in the sequence specified by each department.

The following may not be used as credit toward meeting the requirements for this major: 09.100, 15.100, 41.211, 41.212, and 51.100.

See Also: Undergraduate program in environmental studies under Biology in this publication.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Jewish Studies Program

Director Benjamin Kahn

Full-Time Faculty

Associate Professor P.S. Nadell

Faculty of other schools and departments of the university and from the community also teach in the program.

The program in Jewish Studies recognizes that Jews and Judaism constitute a distinct yet integral component of the heritage of Western civilization. Jewish Studies courses, therefore, analyze the civilization of the Jews and its various cultural and religious expressions from the patriarchal period to the present.

Since Jewish Studies embraces the total experience of the Jewish people, its courses span the spectrum of the arts, humanities, and the social sciences. Moreover, since dynamic contact with many other religions and cultures influenced the development of Jewish civilization, Jewish Studies courses view Jews and Judaism within the broader context of these dominant societies. Courses in Jewish Studies enrich one's understanding of American and world Jewries. The majors and minors in Jewish Studies prepare students for leadership within and service to the Jewish community, and for a greater understanding of our pluralistic society.

Morris Gewirz Series in Jewish Thought

Established in 1975 through an endowment grant from the family of the late Morris Gewirz, noted Washington Jewish philanthropist, in memory of his commitment to Jewish education. It includes a two-semester survey of the development of Jewish civilization and specialized studies such as modern Jewish philosophy.

Dr. Everett and Marian Gordon Studies in Judaism's Interfaith Dimensions

Established in 1976 through an endowment grant from noted Washington orthopaedic surgeon Dr. Everett Gordon and his wife Marian. Provision is made for courses and lectures which uncover the common roots of Western religion and compare Judaism with Christianity and Islam.

Dr. Everett and Marian Gordon Scholarship Awards in Jewish Studies

Also established in 1976 through the endowment grant from Dr. Everett Gordon and his wife Marian. Funding is provided for awards for and printing of outstanding senior theses in Jewish studies and for work and other scholarships for classroom performance by students in courses in Jewish studies, with preference given to students without previous background in Jewish studies.

Jerrold and Jane Goodman Scholarships

Established in 1979 through an annual grant from Yablick Charities, Inc. Scholarships are awarded annually to outstanding students in Jewish Studies.

Jewish Chautauqua Society Lectureships

The Resident Lectureship Committee of the Jewish Chautauqua Society (under the auspices of the National Federation of Temple Brotherhoods) endows two courses each year in the Jewish Studies program.

Special Opportunities

(1) Since Washington, D.C. is a center of Jewish organizational life, we offer internships for credit with local Jewish organizations devoted to community relations, religious activities, Israel, social welfare, etc. (2) Double major: Jewish Studies correlated with a major in another department or school of the university. (3) Jewish Studies minor for majors in the School of Education leading to a certificate for teaching in Jewish schools. (4) Preparation for careers in Jewish communal service.

B.A. in Jewish Studies

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the director of the program.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A minimum of thirty-nine credit hours in Jewish Studies, plus a senior thesis

Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)
- 34.206 Modern Jewish Civilization /S (3)
- 34.481 Senior Thesis in Jewish Studies (3)
- 36.216 Hebrew, Intermediate Modern I /A (3)
- 36.217 Hebrew, Intermediate Modern II /A (3) (or equivalent proficiency in Hebrew as approved by the Jewish Studies Program faculty).

Note that 36.116 Hebrew, Elementary Modern I /A (3) and 36.117 Hebrew, Elementary Modern II /A (3) (or equivalent) are prerequisites for the language requirement but do not count toward the major.

- One course in Jewish literature
- One course in Jewish thought
- One course in contemporary Jewish life
- Fifteen additional credit hours in Jewish Studies

Eighteen of the total thirty-nine hours must be at the 300 level or above. Some courses, with the approval of the program director, may be related courses in other units of the university.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Jewish Studies

Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)
- 34.206 Modern Jewish Civilization /S (3)
- One course in Jewish literature
- One course in Jewish thought
- One course in contemporary Jewish life
- At least one additional course, to make a minimum of eighteen credit hours in Jewish Studies, with a grade of C or better. Nine of the eighteen hours must be at the 300 level or above

Language and Foreign Studies

Chair John Schillinger

Full-Time Faculty

Professor N. Baron, E.I. Burkart (Emeritus), G.S. Burkart (Emerita), J. Child, R.P. Fox, V. Medish, H. Mueller (Emeritus), H. Noel (Emeritus), J. Schillinger, B.F. Steinbrückner

Associate Professor M.J. Betts (Emerita), V.Z. Borkovec (Emerita), M. Charbonneau (Emerita), P.R. Cote, J. Goldin (Emerita), M.A.G. Hood (Emerita), H. Pineda (Emeritus), O. Salazar (Emeritus), J. Wisman, Z. Wythe (Emerita)

Assistant Professor F. Graziano, N. Harris, D. Meson, E. Oktay (Emerita), A. Oliver, D. Rodamar, O. Rojer

Visiting Assistant Professor C. Sparhawk

Instructor C. Cruse-Saunders, B. Ernould, N. Learned, M. Manley, P. Vidal

Visiting Scholar O. Kolobov

In an increasingly complex world that grows smaller every day, the study of foreign languages, literature, and cultures is of vital importance. Learning the ways in which other nations live and think furthers understanding among peoples and cultures. The Department of Language and Foreign Studies offers extensive study in French, German, Russian, and Spanish foreign language and culture; as well as a joint area and language program with the School of International Service and a joint degree program with the School of Communication. In addition, language courses in Chinese, Hebrew, Italian, Hindi, Polish, Japanese, and Latin are usually offered each academic year.

With its large diplomatic community, Washington is ideally situated to offer students the opportunity to exchange ideas and enhance their language skills with native speakers. The university can also draw from a large foreign student body in the exchange of cultures and languages. Extensive language practice is available through the Cooperative Education Program which provides international work-study for academic credit. For French and Spanish degree candidates, internships are available in the local area.

A knowledge of a foreign or second language clearly offers greater employment opportunities today. Many areas of business, industry, and government service consider a background in foreign language a career must. Recent graduates of the department have been employed in a variety of organizations and fields including the Department of State, Library of Congress, National Security Agency, Voice of America, and National Academy of Sciences, as well as international import and export firms, public and private high schools, and research-and-development firms.

Description of the Language Program

First Year 100-Level Intensive and Non-intensive Elementary Courses Emphasis on mastering structure for oral and written communication. Basics of phonology and morphology. Situational approach. Perfection of aural-lingual skills. Development of good pronunciation and speech patterns. Five hours of class instruction per week (two and a half hours for non-intensive courses) supplemented by individual language laboratory work. A native speaker of a foreign language cannot enroll in or earn credit toward graduation in a first year course.

Second Year 200-Level Intensive and Non-intensive Intermediate Courses Emphasis on cultural patterns and contrasts between cultures. Refinement of basic language skills. Study of more complex grammatical structures. Introduction of syntax. Expansion of vocabulary in a cultural context. Intensive and extensive reading. Controlled writing projects. Transition from manipulation of patterns to development of communicative skills. Appropriate use of audiovisuals. Five hours of class instruction per week (two and a half hours for nonintensive courses) supplemented by individual language laboratory work. A native speaker of a foreign language cannot enroll in or earn credit toward graduation in a second year course.

Third Year 300-Level Intensive and Non-intensive Conversation and Composition Courses Emphasis on style and style level. Expansion of vocabulary through extensive reading of literary excerpts, current newspapers, and magazines, assisted by frequent use of audiovisual aids. Perfection of oral skills. Review of grammatical structures. Creative use of language. Study of semantic problems, idioms, clichés, and figurative speech. Five hours of class instruction per week (two and a half hours for non-intensive courses).

300- and 400-Level Topics Courses Selected topics courses taught in the foreign language. Designed for both majors and nonmajors. May be repeated for credit provided different subjects are covered.

300- and 400-Level Civilization Courses Survey of a foreign civilization. Emphasis on the historical development of literature. Topical lectures. Designed for both majors and nonmajors.

B.A. in Foreign Language and Communication Media

Admission to the Program

Students are admitted to both the School of Communication and the Department of Language and Foreign Studies.

Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media

University Requirements

- A total of 120 credit hours

- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- Prerequisite competency in the major language at the intermediate level
- A total of fifty-four credit hours with grades of C or better

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Three communication and media studies courses from the School of Communication. (See Media Studies [MS] in the course listing in this publication.)
- Two courses related to any contemporary culture taught inside or outside the department
- One of the following:
38.198 Language and Ethnicity (3)
38.199 Introduction to Language (3)
38.200 Language and Mind (3)
- Five professional courses in one of the four communication program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media
- Fifteen credit hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in French, German, Russian, or Spanish Studies

Admission to the Program

Students must be approved by the department for formal admission to the major. Language course work may be waived if high school or other preparation warrants it.

Placement will be made in consultation with a departmental adviser.

Majors

French, German, Russian, or Spanish Studies

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of forty-five credit hours with grades of C or better; thirty-six credit hours for Russian major
- Prerequisite completion of elementary language level; intermediate level for Russian major
- One of the following field concentrations:
 - 1) Twelve credit hours in a second foreign language at any level
 - 2) Twelve credit hours in area studies in the major field at the 300 level or above
 - 3) Teacher education leading to certification to teach a foreign language at the secondary level
 - 4) An approved minor or major related to the major field; for example, a minor in another language, business administration, mass media studies, international business, economics, political science, history, sociology, literature, anthropology, or international studies

Teacher Certification

Students preparing for French or Spanish teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

Course Requirements

French

- Six to twelve hours of:
36.222 French, Intermediate I /A (3) and
36.223 French, Intermediate II /A (3)
or
36.224 French, Intensive Intermediate I /A (6) and
36.225 French, Intensive Intermediate II /A (6)
- 37.324

French Intensive Conversation and Composition I /A (6) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)

- 37.325 French Intensive Conversation and Composition II /A (6) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)
- Three credit hours of linguistics (38.xxx) at the 100 or 200 level
- Remaining credit hours at the 300 level or above with at least three credit hours at the 400 level and six credit hours at the 500 level

German

- 36.232 German, Intermediate I /A (3)
- 36.233 German, Intermediate II /A (3)
- 37.330 German Grammar Review (3)
- 37.332 German Conversation and Composition I /A (3) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- Three credit hours of linguistics (38.xxx) at the 100 or 200 level
- Remaining credit hours chosen from 300-400-level courses, independent study projects, and topics courses in German studies

Russian

- 37.342 Russian Conversation and Composition I /A (3)
- 37.343 Russian Conversation and Composition II /A (3)
- 75.501 Integrated Seminar on Russia (3) (or approved substitute)
- Twenty-one credit hours from the following:
37.341 Russian Political Translation (3)
37.442 Russian Literary Translation (3)
500-level Russian literature or Russian linguistics courses.
- 37.390 Independent Reading Course In Language and Foreign Studies (1-6)
or
37.490 Independent Study Project in Language and Foreign Studies (1-6)
- Three credit hours of linguistics (38.xxx) at the 100 or 200 level

Spanish

- Six to twelve credit hours of intermediate Spanish
- 37.354 Spanish Intensive Conversation and Composition I /A (6) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.357 Introduction to Spanish Literature (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Internship: Spanish (2-6)
- Three credit hours of linguistics (38.xxx) at the 100 or 200 level
- Remaining credit hours chosen from Spanish topics, colloquium, and literature courses

Note Also: The Department of Language and Foreign Studies faculty offers teacher education courses through the School of Education.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Language and Area Studies

Students receive a B.A. in a language and area study from the College of Arts and Sciences or the School of International Service.

Admission to the Program

Freshmen and transfer students are admitted to the Department of Language and Foreign Studies in the College of Arts and Sciences or to the School of International Service. They must achieve a cumulative grade point average of 3.00 or better and determine their language and area before they are formally recognized as majors.

Majors

French/West European Area Studies; German/West European Area Studies; Russian/USSR Area Studies; Spanish/Latin American Area Studies

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing

- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of forty-two credit hours with grades of C or better

Eighteen of the total credit hours in the language of the major at the 300 level or above taken in the Department of Language and Foreign Studies

Twenty-four of the total credit hours in the area of specialization fulfilled according to requirements for the College of Arts and Sciences degree or the School of International Service degree.

Course Requirements*French*

- 37.324 French Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)

German

- 37.332 German Conversation and Composition I /A (3) (or substitute if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (or substitute if warranted by language proficiency)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- Additional six credit hours in German as advised

Russian

- Courses chosen from regular Russian offerings in consultation with adviser

Spanish

- 37.354 Spanish Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.450 Spanish Civilization I: Spain (3)

- 37.451 Spanish Civilization II: Latin America (3)

College of Arts and Sciences

- Twenty-four credit hours in area-related courses in anthropology, economics, government, history, international relations, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement. Courses are chosen in consultation with the adviser.

School of International Service

- Twenty-four credit hours of course work specific to the major area of which at least six credit hours must be in the School of International Service (SIS)

Other course work may be taken in anthropology, economics, government, history, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement.

Note: SIS-degree candidates must include in their program a minimum of eighteen credit hours of SIS course work.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in French, German, Russian, or Spanish Language

Requirements

- Twenty-four credit hours of courses taught in the foreign language, of which twelve credit hours must be at the 300 level or above

Minor in Language and Area Studies (French and Spanish)

Requirements

- A total of twenty-four credit hours
- Twelve credit hours in the Department of Language and Foreign Studies. Six of these twelve credit hours must be at the 300 level or above
- Twelve credit hours selected from relevant course offerings in the Department of Language and Foreign Studies or in other teaching units. Studies may be in such fields as international service, government and public affairs, business administration, anthropology,

history, or economics. Six of these twelve credit hours must be at the 300 level or above.

Minor in Russian Studies

Requirements

- 75.501 Integrated Seminar on Russia (3) (or approved substitute)
- Fifteen credit hours in Russian studies selected from course offerings in at least three different teaching units. Nine of these fifteen credit hours must be at the 300 level or above.

Undergraduate Certificate in Translation

Students receive an Undergraduate Certificate in Translation in French, German, Russian, or Spanish. The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have completed the 300-level Conversation and Composition II language course or equivalent.

Course Requirements

- Fifteen credit hours at the 300 level or above of which at least twelve must be taken in the Department of Language and Foreign Studies

The remaining three credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.

- Competency examination

M.A. in French, Russian, or Spanish Studies

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must hold a B.A. or an equivalent foreign degree in the language and have proficiency in the appropriate language and culture. Part-time as well as full-time students are welcome in the program.

Majors

French, Russian, or Spanish Studies

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work with a grade point average of 3.00 (on 4.00 scale)

Students may pursue Concentration Option A (French only) or B described below.

- Two written comprehensive examinations in the field or fields of core courses. One of these must be conducted in the foreign language. An oral interview in the foreign language precedes the written comprehensive to evaluate the student's preparedness.
- Thesis option: At least one 700-level seminar offered in the Department of Language and Foreign Studies and thesis preparation (usually expressed as three credit hours in 37.797).

Nonthesis option: At least two advanced graduate seminars, one of which must be in the Department of Language and Foreign Studies. With special permission, the second seminar can be replaced with a supervised research project.

Concentration Option A (French only): Concentration in Language, Culture, Literature Studies consisting of at least twenty-four credit hours in appropriate courses and colloquiums taught in the foreign language and offered by the Department of Language and Foreign Studies.

Concentration Option B: Concentration in Language Studies and one of the following areas: Anthropology, Communication and Media Studies, Education, History, International Affairs, International Business, Linguistics, or Sociology. The program consists of at least fifteen credit hours in approved courses taught in the foreign language and offered by the Department of Language and Foreign Studies and at least nine credit hours in courses in the chosen area of concentration outside the department.

Special Opportunities

The following study opportunities may partially satisfy course work in the chosen concentration: Graduate Certificate in Teaching English to Speakers of Other Languages, Certificate of Expertise in European Integration, and International Work-Study for academic credit through the Cooperative Education Program.

Master of Arts in Teaching (M.A.T.)

An M.A.T. degree (offered through the School of Education) is available for students with a bachelor's degree in French or Spanish who wish to acquire teaching certification in secondary education.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Miller Analogies Test or GRE and must have completed sufficient course work in French or Spanish.

Degree and Major Requirements

- A total of thirty-nine credit hours of approved graduate work, including fifteen hours in a liberal arts major, eighteen hours in education, and six hours in a teaching practicum or internship

- Comprehensive examination

Course Requirements

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.521 Foundations of Education (3)
- 21.522 Principles of Effective Methods and Instruction (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.599 Student Teaching (6)
- 21.620 Theories of Educational Psychology (3)
- Five electives in the academic discipline of the designated teaching area (15)

Accreditation

The Master of Arts in Teaching (M.A.T.) is accredited by NASDTEC (The National Association of State Directors of Teacher Education and Certification).

Graduate Certificate in Translation

Students receive a Graduate Certificate in Translation in French, Russian, or Spanish. The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have a bachelor's degree and have completed the 300-level Conversation and Composition II language course or equivalent.

Course Requirements

- Fifteen credit hours at the 500 level or above of which at least twelve must be taken in the Department of Language and Foreign Studies
- The remaining three credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.
- Competency examination

Certificate in Teaching English to Speakers of Other Languages

Admission to the Program

International students must demonstrate competence in English equivalent to a score of 600 or above in the Test of English as a Foreign Language (TOEFL).

Course Requirements

- 38.500 Principles of Linguistics (3)

- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Two elective courses

Literature

Chair Kay Mussell

Full-Time Faculty

Professor M.C. Batchelder (Emeritus), B.T. Bennett, C.M. Clark (Emeritus), P. Han (Emeritus), J.J. Jorgens, F. Kelly (Emerita), E.L. Kessler, F. King (Emerita), C.R. Larson, A. Lustig, K.W. Moyer, K. Mussell, M. Patton (Emerita), J.N. Radner, J.A. Roberts, R. Rubenstein, H.S. Taylor, F. Turaj, L. Young (Emerita)

Associate Professor A.P. Bean (Emeritus), J. Loesberg, W.E. Stahr, S. Yarnall (Emerita), F.E. Zapata

Assistant Professor T.F. Cannon, Jr., H. Ibrahim, R. McCann, D.C. Payne, C.J. Singley, E. Smoodin, J.R. Solomon

Instructor L. Brennan, S. Davis, H. Dwinell, M. Esselman, B. Esstman, H. Grossinger, M. E. Henry, J. Hyman, D. Orenstein, J. Pearce, C. Vasilake

Concerned with the study of literature, writing, and film, the Department of Literature offers courses that embrace many approaches to the rich heritage of written, oral, and cinematic tradition, as well as courses that challenge students to write creatively and professionally. In addition to taking courses, our students are encouraged to enroll in internships to sample careers that use the skills they are developing in the classroom; Washington affords a wide range of job opportunities (many involving writing or editing) in settings such as arts organizations, radio and television, government offices, public interest organizations, museums, schools, and community groups.

The department's faculty of scholars and writers staff three degree programs in literature: the B.A., the M.A., and the M.F.A. in Creative Writing. All three programs offer students the chance to study literature, film criticism, and creative writing; all are small and flexible programs that bring students and faculty into close contact in small classes and informal gatherings and colloquiums. The M.A. program provides an overview of the literary history of our culture in addition to a series of seminars on theoretical topics in which students and faculty together consider what constitutes the discipline of literary criticism. The program of the M.F.A. in Creative Writing includes work in fiction, poetry, and film; workshops with distinguished visiting writers; internships; and course work in literature and in the arts of translation and literary journalism. It also offers students opportunities to give public readings, to meet with editors and publishers, and to produce a nationally known literary magazine.

In addition, the department offers two degree programs in the study of film, which take advantage of the impressive film resources of the Washington area. The B.A. in Literature: Cinema Studies is an interdisciplinary major com-

bining course work in cinema and video criticism and history with experience in production; graduates of the program have gone on to work in such careers as film reviewing, theatre management, and film production. The M.A. in Film and Video, offered jointly with the School of Communication, is aimed at students with professional commitment to the field. The cinema programs show eighty to ninety feature films each semester and offer a full range of production facilities through the University Media Center.

The Visiting Writers Series

Each semester, the department sponsors public readings by nationally-known poets, fiction writers, and editors. These visitors also conduct workshops for graduate and undergraduate students of creative writing. Visiting writers have recently included Madison Smartt Bell, A.M. Homes, William Jay Smith, Toni Cade Bambara, and Allan Gurganus. Distinguished Writers in Residence were Jon Silkin, Brett Singer, Jean Valentine, and Alice McDermott.

B.A. in Literature

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better. At least twenty-four of the forty-two hours must be taken at the 300-level or above

Course Requirements

- 23.105 The Literary Imagination /A 1:1 (3)
or
23.120 Interpreting Literature /A 1:1 (3)
- Three survey courses from the following: 23.210, 23.211, 23.115, 23.220, 23.221, 23.230, or 23.231 (At least one of these must be 23.115, 23.210, 23.220, or 23.230. A student may not count both 23.115 and 23.230 in fulfilling this requirement.)

- Four courses in literature written before 1900, of which at least two must be in literature written before 1800
- One course in either cinema studies or creative writing
- Five other courses offered or approved by the Department of Literature

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this catalog for information.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Literature: Cinema Studies

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-five credit hours with grades of C or better

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 23.105 The Literary Imagination /A 1:1 (3)
or
23.120 Interpreting Literature /A 1:1 (3)
- 23.135 Critical Approach to the Cinema /A 1:1 (3)

- 23.376 National Cinema (3)
- 23.378 Major Filmmakers (3)
- 23.380 Independent Filmmakers (3)
- 17.430 Basic Photography(3) and
17.431 Basic Visual Media Production (3)
or
17.558 History of Motion Pictures I (3) and
17.559 History of Motion Pictures II (3)
- 23.375 Film and Literature (3)
or
23.402 Creative Writing: Film Script (3)
- 23.377 Popular Film Genres (3) or, by permission of adviser, a special topics course in film
- 17.511 History of Documentary Film (3)
or
17.512 Television Documentary (3)
- Three additional courses in literature. With the adviser's approval, one of these may be a literature course taught in a foreign language
- One course in theatre, music, or photography

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Cinema Studies

Requirements

- 17.200 Writing for Mass Communication (3)
- 23.135 Critical Approach to the Cinema /A 1:1 (3)
- Four courses from the following:
23.375 Film and Literature (3)
23.376 National Cinema (3)
23.377 Popular Film Genres (3)
23.378 Major Filmmakers (3)
23.380 Independent Filmmakers (3)
23.402 Creative Writing: Film Script (3)
- Two courses from the following:

- 17.430 Basic Photography (3) (taken with 17.431)
- 17.431 Basic Visual Media Production (3) (taken with 17.430)
- 17.511 History of Documentary Film (3)
- 17.512 Television Documentary (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3) or another visual media course approved by adviser.

Minor in Literature

Requirements

- 23.105 The Literary Imagination /A 1:1 (3)
or
23.120 Interpreting Literature /A 1:1 (3)
- One course selected from the following:
 - 23.115 Remarkable Literary Journeys /A 2:1 (3)
 - 23.210 Survey of American Literature I (3)
 - 23.211 Survey of American Literature II (3)
 - 23.220 Survey of British Literature I (3)
 - 23.221 Survey of British Literature II (3)
 - 23.230 Major European Writers I: An Introductory Survey (3)
 - 23.231 Major European Writers II (3)
- Twelve credit hours in literature (nine hours must be at the 300 level or above)

Only one course in creative writing may be counted toward the minor.

M.A. in Film and Video

Offered jointly by the Department of Literature and the School of Communication

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination (Verbal, Quantitative, and Analytical). Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study. Students without experience in film and video production are required to take 17.631 Basic Visual Media Production prior to or at the beginning of the regular program. This course does not count toward the thirty-three credit hours required for the degree.

Admission is not limited to full-time students; however, those admitted will normally be expected to complete the program (thirty-three credit hours) within a twenty-four month period.

Admission inquiries to Master's Program in Film and Video Committee, School of Communication, Mary Graydon Center 300.

A graduate application packet and a graduate film and video program brochure are available on request. The brochure describes the two letters of recommendation, and the thousand-word statement of purpose required of all applicants to this program, and provides a more detailed explanation of the purpose and content of the program. The statement of purpose (two copies) should be sent to the committee of the master's program in film and video. The letters of recommendation should be sent directly to the Office of Admissions, The American University, Washington, D.C. 20016.

Further inquiries should be addressed to the School of Communication, Graduate Film and Video Program.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work
 - One comprehensive examination, 17.004 Film and General Communication
 - Thesis option: six credit hours in thesis research with a grade of B or better
- Nonthesis option (students specializing in the areas of script writing or production): six hours involving an original creative work with a grade of B or better

Course Requirements

- Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.

While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts. Students without experience in visual media at the undergraduate level are required to take 17.630 Basic Photography and 17.631 Basic Visual Media Production at the beginning of their regular program. These courses do not count towards the thirty-three credit hours required for the degree.

See also: Film and video courses in the School of Communication.

M.A. in Literature

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should have a grade point average of 3.00 (on a 4.00 scale) in undergraduate literature courses. The Graduate Record General Examination is recommended. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will also be considered, provided that substantial study of literature has been done. Two letters of recommendation and a sample of critical

writing are required. Part-time as well as full-time students are welcome in the program.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- A written comprehensive examination based on a reading list prepared by the department, usually taken in the final semester of study
- Thesis option: a two-semester project involving independent research under faculty direction (three credit hours, 23.690) and thesis writing (three credit hours, 23.797)

Course-intensive (nonthesis) option: six credit hours of course work, three of which must be in a graduate seminar (23.7xx or 23.5xx). Students electing this option must take at least five graduate seminars to fulfill their degree requirements.

Course Requirements

- At least four graduate seminars (23.7xx or 23.5xx), chosen from among those offered on a rotating basis by the department. Graduate seminar credit will also be given for participation in Folger Institute seminars.
- Twelve additional credit hours of graduate seminars, advanced literature courses (23.500 through 23.750), and independent reading courses or study projects

With permission of the departmental adviser, a student may take up to six graduate credit hours outside the Department of Literature.

- Six additional credit hours to fulfill the thesis or nonthesis option

M.F.A. in Creative Writing

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will be considered. Admission is based on samples of previous writing (thirty pages of fiction or fifteen pages of poetry), academic record, and two letters of recommendation.

Degree and Major Requirements

- A total of forty-eight credit hours of approved graduate work
- Advancement to candidacy is automatic on admission to the program, but subject to yearly review
- A book-length manuscript of fiction, poetry, or drama, to be approved by the creative writing faculty
- One oral examination on the candidate's manuscript: its merits, characteristics, and relations to the works of others

Course Requirements

- Twelve credit hours in writing workshops:
23.700 Advanced Fiction Workshop
23.701 Advanced Poetry Workshop
23.702 Creative Writing: Film Script

Students may concentrate on one genre or work in several.

- Twelve credit hours in literature courses selected from among the regular graduate-level literature offerings of the department
- 23.705 Seminar on Translation (3)
- 23.710 Art of Literary Journalism (3) (or Freelance Writing)
- 23.691 Graduate Internship (6)

Possible internship sites include the Writer's Center in Bethesda, the Folger Shakespeare Library, the Library of Congress, the Writers-in-the-Schools programs, and affiliations with in-house and trade publishers.

- Six credit hours from the following:

Additional writing workshops, offered here or elsewhere.

Additional courses in literature, cinema studies, or performing arts.

With the approval of an adviser, courses in foreign languages, journalism, or in any other discipline which seems germane to the individual student's interest and consistent with the objectives of the program.

- Six credit hours of 23.797 Master's Thesis Seminar

Mathematics

Chair Robert W. Jernigan

Full-time Faculty

Professor J. Blum (Emeritus), D.S. Crosby, M.W. Gray, R.A. Holzager, R.W. Jernigan, B.P. Korn, S. Parker, G. Quinn (Emerita), S.H. Schot, J.H. Smith (Emeritus), A. Wu

Associate Professor A.M. Barron, I.L. Chang, L.J. Crone, A. Enayat, M. Greene

Assistant Professor S. Casey, J. Hakim, R. Modarres-Hakimi, J. Nolan, H. Sandler, V. Stallings-Roberts, F. Wang

Instructor F. Awtarani, E. Kondelis, R. Lee, J. O'Connell, Li Yong

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within

the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C. location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Mathematics may be studied as an intellectual discipline for its own sake or as a professional tool for application to the problems of other disciplines. Majors in Mathematics will receive firm grounding in the theory and techniques of algebra, analysis, and other fields as a basis for further work in pure or applied mathematics and for graduate studies. The major in Applied Mathematics offers training in mathematical problem-solving techniques without emphasis on abstract theory. This program is not as firm a foundation for graduate work as the mathematics major, but is tailored to the student who will need to apply mathematical, statistical, and computer methods to practical problems.

Undergraduates majoring in Mathematics may choose a variant of the standard curriculum, supplemented by courses in education and in psychology, to be certified as secondary teachers.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Applied Mathematics

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-nine credit hours with grades of C or better

Course Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.460 Introduction to Numerical Methods (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.321 Differential Equations (3)
- 41.501 Probability (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 42.502 Introduction to Mathematical Statistics (3)
- Three additional mathematics electives, to be selected in consultation with the student's adviser.

Related Courses

- 51.110 University Physics I /N 5:1 (4)
- 51.210 University Physics II /N 5:2 (4)
(or alternative science courses if approved by adviser)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.S. in Mathematics

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

Tracks

Mathematics or Secondary Mathematics Teaching

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-two credit hours with grades of C or better for mathematics. A total of fifty-eight hours for secondary mathematics teaching certification.

Course Requirements

Mathematics

- 40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.513 Introduction to Modern Algebra II (3)
- 41.520 Introduction to Analysis I (3)
- 41.521 Introduction to Analysis II (3)
- Three courses selected from the following:
40.460 Introduction to Numerical Methods (3)
41.321 Differential Equations (3)
41.501 Probability (3)
41.515 Number Theory (3)
41.540 Topology (3)
41.550 Complex Variables for Applications (3)
41.551 Mathematics for Physics (3)
42.502 Introduction to Mathematical Statistics (3)
- Three courses in a field of application, to be selected in consultation with the adviser. (This requirement may be waived for students with more than one major in this department and for students obtaining secondary teaching certification in mathematics.)

Secondary Mathematics Teaching

- 40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.501 Probability (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.520 Introduction to Analysis I (3)
- 41.540 Topology (3)

- 42.502 Introduction to Mathematical Statistics (3)
- One additional approved mathematics elective
- Courses required for secondary teaching certification:
21.200 Schools and Society /S 4:2 (3)
21.320 Psychology of Education (3)
21.321 Field Experience: Observation and Analysis (1)
21.340 Methods and Materials in Secondary Education: English, Social Studies, Mathematics, and Foreign Languages (3)
21.541 Foundations of Special Education for Exceptional Children (3)
or
21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
21.599 Student Teaching (9)

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this chapter for information.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Mathematics

Requirements

- 41.310 Linear Algebra (3)
- 41.221 Calculus I /N (4) and
41.222 Calculus II /N (4)
or
41.211 Applied Calculus I /N (4) and
41.212 Applied Calculus II /N (3)
- Three additional approved courses numbered 41.xxx, at least two of which must be at the 300 level or above

Minor in Quantitative Methods

Course Requirements

- 41.310 Linear Algebra (3)
- 40.260 Introduction to Computing /N (4)
or
40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4) and

- 41.222 Calculus II /N (4)
or
41.211 Applied Calculus I /N (4) and
41.212 Applied Calculus II /N (3)
- Two courses in statistics numbered 42.3xx or above
(for limitation on statistics courses that may be
chosen, see description of statistics minor)

Five-Year Programs

Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.20 on a 4.00 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

Combined B.S./M.A. Program in Applied Mathematics

Students receive a B.S. in Applied Mathematics and an M.A. in Applied Mathematics.

Additional Admission Requirements

This option is not open to those students who followed the curriculum for Secondary Mathematics Teaching.

Degree and Major Requirements

- A total of eighty-three credit hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis

Nonthesis option: three credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in Applied Mathematics
- Twelve credit hours of graduate courses in mathematics
- Six credit hours chosen within the department or an application area approved by the department

- Six credit hours of course work to fulfill the thesis or nonthesis option

Combined B.S./M.A. Program in Mathematics

Students receive a B.S. in Mathematics and an M.A. in Mathematics.

Additional Admission Requirements

Applicants must have completed the sequence 41.512 and 41.513 Introduction of Modern Algebra I & II or the sequence 41.520 and 41.521 Introduction to Analysis I and II by the end of the junior year.

Degree and Major Requirements

- A total of seventy-two hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis

Nonthesis option: three credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in Mathematics. Senior-year courses must include a one-year major course sequence acceptable towards a master's degree, but to count towards the B.S. only.
- Eighteen credit hours of graduate courses in mathematics
- Six credit hours of course work to fulfill the thesis or nonthesis option

Combined B.S./M.S. Program in Mathematics and Computer Science

For a description of this program, see listing under Computer Science and Information Systems in this chapter.

Combined B.S./M.S. Program in Statistics or Mathematics and Statistics

For a description of this program, see listing under Statistics in this chapter.

M.A. in Mathematics

Admission to the Program

In addition to meeting the minimum university requirements for admission, applicants must have an undergraduate degree in mathematics. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Degree and Major Requirements

- A total of thirty credit hours of graduate course work including thesis or nonthesis option requirements
- Proficiency in Russian, German, French, or an approved computer language as a tool of research
- A written comprehensive examination in either mathematics, 41.050, or applied mathematics, 41.051
- Thesis option: six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis

Nonthesis option: three credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics (topic to be chosen in consultation with a faculty member) requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

Ph.D. in Mathematics Education

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must hold a master's degree in either education or mathematics. Admission is based on academic record and two letters of recommendation.

Degree and Major Requirements

At least forty-five credit hours of approved graduate work in addition to credit earned for the master's degree.

- Proficiency in two tools of research

One tool must be statistics, satisfied by satisfactory completion (B or better) of the statistics courses described below or by passing an examination given by the Department of Mathematics and Statistics. The second tool may be French, German, Russian, Spanish, or an approved computer language.

- Four comprehensive examinations:
41.070 Mathematics for Mathematics Education (written)
41.071 Mathematics Education (oral)
41.072 Mathematics Education (written)

One additional comprehensive exam from those regularly given by the School of Education or the departments of psychology, mathematics and statistics, or

computer science and information systems. Students who do not have a previous graduate degree in education must take one of these exams in the School of Education. In special cases, dependent upon experience and interest, other fields are possible.

- Dissertation directed by a full-time faculty member and an oral defense of the dissertation.

Course Requirements

- 41.513 Introduction of Modern Algebra II (3)
- 41.521 Introduction to Analysis II (3)
- 41.585 Mathematics Education (3)
- 41.685 Practicum in Mathematics Education (3)
- 41.790 Research Seminar in Mathematics Education (3)

Approved mathematics courses may be substituted for 41.513 and 41.521 if the student's previous work included these courses.

- 42.515 Regression (3) and
42.516 Design of Experiments (3)
or
41.501 Probability (3) and
42.502 Introduction to Mathematical Statistics (3)

Approved statistics courses may be substituted for 41.515, 42.516, 41.501, and 42.502 if the student's previous work included these courses.

- Twelve additional hours of approved course work in mathematics, statistics, computer science, education, psychology, or other relevant fields

This course work might include:

for college teaching:

- 21.566 Seminar: Cultural Factors in Higher Education (3)
- 21.583 Curriculum Construction and Program Design (3)
- 21.587 Analysis of Instruction and Training (3)
- 21.620 Theories of Educational Psychology (3)

for education administration:

- 21.587 Analysis of Instruction and Training (3)
- 21.631 Introduction to Administration in Education, Training, and Development (3)
- 21.635 Training Program Design

Students who have not had courses comparable to 21.583 Curriculum Construction and Program Design and 21.587 Analysis of Instruction and Training must include these courses in their programs.

Music and Technology

B.A. in Music and Technology

The B.A. in Music and Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the Department of Computer Science and Information Systems and the Department of Performing Arts. This innovative program focuses on the new technology of sound synthesizers and computers, with practical applications in concerts and recordings. In this program students will develop skills needed in mastering the new technology that is bringing about innovations in music and is creating a unique collaboration between technology and art. Please refer to the Physics section in this chapter for specific degree requirements and courses.

Performing Arts: Music, Theatre, Dance, and Arts Management

Chair Valerie Morris

Full-Time Faculty

Professor C. Crowder, E.S. Hayes (Emerita), A.R. Mandel, H. Mardirosian, V.E. Mason (Emeritus), J.L. McLain (Emeritus), N. Prevost, J. Sapleyevski, G.C. Schuetz, G. Smith (Emeritus), E. Vrentos

Associate Professor K. Baker (Emeritus), B. Baranovic, G. Humphries, V. Morris

Assistant Professor C. Jennings, S. Levy, C. Mendenhall

The Department of Performing Arts provides intensive professional training in each of its disciplines: music, theatre, dance, and arts management.

The programs offer a unique blend of classroom work and performance experience. Each year a season of plays, opera, orchestra and choral concerts, and dance concerts augments classroom learning with actual experience. Similarly, the graduate Arts Management program provides hands-on experience through field studies and an internship with a local or national arts organization.

The Visiting Artists and Artists-in-Residence programs in the Department of Performing Arts provide students with opportunities to meet and work with well-known professionals in each of the disciplines. Guest artists have included Twyla Tharp, Nina Wiener, Jim May, and Erick Hawkins. For musicians, internationally acclaimed composer Jerzy Sapleyevski collaborates with the Physics Department in directing the A.U. Music Lab, which gives the students opportunities to experiment with new sound technology. The Washington Music Ensemble, in residence at the university, features faculty members Alan Mandel and Elizabeth Vrentos. In addition, graduate classes are held with famous musical performers such as

Elizabeth Schwarzkopf and Leon Fleischer. Special opportunities for performance include participation in the department's musical theatre troupes Pizzazz and Creative Company. The companies have performed for inaugural events, corporate functions, and special galas. Theatrical guest artists have included Mabou Mines, Joshua Logan, Richard Schechner, Herb Edelman, and Cliff Fanning Baker.

The dynamic interaction of performance experience, theoretical and historical understanding, and exposure to well-established professionals is designed to prepare the student for a professional or teaching career. The Washington, D.C. area is the home of many arts organizations, including the John F. Kennedy Center for the Performing Arts, the Washington Ballet, the Wolf Trap Farm Park for the Performing Arts, the National Symphony, and the Arena Stage. In addition, Washington, D.C. hosts many international artists and performing arts groups. This environment provides an excellent climate for the nurturing of the creative spirit.

B.A. in Music

The music program is fully accredited by the National Association of Schools of Music.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of fifty-nine credit hours with grades of C or better

Course Requirements

- 67.110 Understanding Music /A 1:1 (3)
- 67.124 Music Theory I: Basic Harmony and Analysis (3)
- 67.125 Music Theory II: Continuing Harmony (3)
- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)
- 67.205 Masterpieces of Music /A 1:2 (3)
- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.320 Music Theory III: Modal Counterpoint (3)

- 67.321 Music Theory IV: Tonal Counterpoint (3)
 - 67.322 History of Music I (3)
 - 67.323 History of Music II (3)
 - 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
 - 67.325 Music Theory VI: The Twentieth Century (3)
- Any of these courses may be waived by examination.
- Four semesters of applied music
 - Two semesters from the following:
67.142 University Chorale (1)
67.143 University Singers (2)
67.144 University Orchestra (1)
 - Two additional semesters in any faculty-conducted ensemble
 - Nine credit hours of electives in music

Note: Students intending to pursue graduate work in music are advised to fulfill the more extensive requirements of the B.Mus. degree.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section of this chapter for information.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Music and Technology

The B.A. in Music and Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the Department of Computer Science and Information Systems and with the Department of Performing Arts. For a description of this program, see listing under Physics in this chapter.

B.A. in Performing Arts: Theatre

Admission to the Program

Formal admission to the major requires some previous theatre experience and demonstrated talent during a one-year probationary period.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing

- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of at least thirty-two credit hours with grades of C or better
- Participation in one theatre program production each semester and management of one of these productions before graduation (as stage manager or assistant stage manager)

Course Requirements

- 67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production (4)
- 67.352 Beginning Directing (3)
- 67.365 Theatre History I (3)
- 67.366 Theatre History II /A (3)
- 67.367 Theatre History III (3)
- A total of four credit hours in theatre practicum (no more than one hour a semester) as approved by theatre faculty. One hour is taken in each of the following areas: set construction and lighting, costuming, public relations, and stage management.
- Six credit hours in technical/design area
- The remainder of departmental course requirements are determined by close counsel with the adviser.

Teacher Certification

Students interested in teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education listing in this chapter for information. The student's program is coordinated by the theatre program and the School of Education.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Bachelor of Music (B.Mus.)

Tracks

Composition, Music History, Performance (piano, voice, strings, brass, woodwinds, percussion, organ, harp, guitar, harpsichord, and conducting), and Theory

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of at least fifty-nine credit hours (or more, depending on the chosen track) with grades of C or better
- Senior comprehensive examination in music history and theory
- Recital or half recital. Students must register in a major applied music area in the semester the recital is given. See requirements listed in individual tracks.

Course Requirements

- 67.110 Understanding Music /A 1:1 (3)
- 67.124 Music Theory I: Basic Harmony and Analysis (3)
- 67.125 Music Theory II: Continuing Harmony (3)
- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)
- 67.205 Masterpieces of Music /A 1:2 (3)
- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.320 Music Theory III: Modal Counterpoint (3)
- 67.321 Music Theory IV: Tonal Counterpoint (3)
- 67.322 History of Music I (3)
- 67.323 History of Music II (3)
- 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- 67.325 Music Theory VI: The Twentieth Century (3)
- 67.326 Orchestration (3)

Any of the above may be waived by examination.

- Participation in one faculty-conducted ensemble for each semester of full-time attendance at the university (or the equivalent for part-time attendance), one half or more of this participation being in 67.142 University Chorale (1), 67.143 University Singers (2), or 67.144 University Orchestra (1)

Composition

- Four semesters of 68.122 Private Instrumental or Vocal Study for a total of eight credit hours
- Four semesters of 68.444 Music Composition (3) and 67.524 Studies in Music Theory (3)
- 67.537 Music: Analytical Studies (3)
- Full recital of original compositions

Music History

- Three of the following:
67.520 Studies in Music Literature (3)
67.529 Medieval Music (3)
67.530 Renaissance Music (3)
67.531 Music of the Baroque Era (3)
67.532 Music of the Classical Era (3)
67.533 Music of the Romantic Period (3)
67.534 Music of the Twentieth Century (3)
67.535 Studies in Music History (3)
67.536 Research Methodology in Music (3)
- Half recital

Performance

- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- Half (junior) recital
- Full (senior) recital

Theory

- 67.524 Studies in Music Theory (3)
- 67.537 Music: Analytical Studies (3)
- 68.444 Music Composition (3)
- Half recital

Recommendations

Registration in major applied area each semester. Reading knowledge of German for music history specialists. Study of French, German, and Italian diction for voice and accompanying specialists.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Dance

Minor Requirements

- A total of twenty-four credit hours in dance, including at least twelve at the 300 level or above

Course Requirements

- 67.506 The Moving Body (3)
- 67.507 Principles of Movement (3)
- 67.411 Composition of Dance I (3)
or
67.412 Composition of Dance II (3)
- 67.305 History and Philosophy of Dance I (3)
or
67.306 History and Philosophy of Dance II (3)
- Twelve credit hours in dance electives

Note: At least twelve of the required twenty-four credit hours must be taken in residence at The American University.

Students must be assigned a departmental adviser if they intend to pursue the minor. Each student completing the minor must achieve some proficiency in dance performance. Required levels of proficiency are decided individually in conference with the director of the dance program, and take into account the student's interests, background, and abilities in dance.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education listing in this chapter for information. The student's program is coordinated by the dance program and the School of Education.

Minor in Music

Tracks

Performance, Theory/History

Minor Requirements

A total of eighteen credit hours, including at least twelve at the 300 level or above

Course Requirements

Performance

- 67.124 Music Theory I: Basic Harmony and Analysis (3) and
67.125 Music Theory II: Continuing Harmony (3)
or
67.127 Musicianship I (3) and
67.128 Musicianship II (3)
- 67.323 History of Music II (3)

- Three semesters of 68.532 Private Study (2) for a total of six credit hours
- Three credit hours in music electives at the 300 level or above

Theory/History

- 67.124 Music Theory I: Basic Harmony and Analysis (3) and
67.125 Music Theory II: Continuing Harmony (3)
or
67.127 Musicianship I (3) and
67.128 Musicianship II (3)
- 67.323 History of Music II (3)
- Nine credit hours of music electives at the 300 level or above

Minor in Theatre

Minor Requirements

A total of twenty-two credit hours in theatre, including at least twelve at the 300 level or above

Course Requirements

- 67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production (4)
- 67.450 Rotating Topics in Theatre (3)
or
67.557 Creative Writers' Performance Laboratory (3)
- One of the following:
67.361 Costume Design (3)
67.362 Lighting Design (3)
67.363 Scene Design (3)
- One of the following:
67.350 Scene Study (3)
67.351 Movement for Actors (3)
67.355 Speech and Voice for the Theatre (3)
67.450 Rotating Topics in Theatre (3)
67.555 TV Performance I (3)
- One of the following:
67.220 Reflections of American Society on Stage and Screen /A 1:2 (3)
67.365 Theatre History I (3)
67.366 Theatre History II /A (3)
67.367 Theatre History III (3)

Note: At least nine of the required twenty-two credit hours must be taken in residence at The American

University. Students must be assigned a departmental adviser if they intend to pursue the minor.

M.A. in Music

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. In addition, Composition specialists must submit three or more original works of different kinds and Performance specialists must audition, either in person or by tape recording. Depending on previous experience, a student may be admitted with deficiencies which must be removed by appropriate course work or by waiver examination. During the first week of graduate work all new students are required to take the Graduate Placement Examination in Theory and History, unless waived by the director of music, to determine possible deficiencies in these basic areas.

Tracks

Composition, Musicology, Performance (piano, strings, brass, woodwinds, percussion, organ, harp, guitar, harpsichord, and conducting), Theory, and Piano/Vocal Pedagogy

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- Advancement to candidacy on completing twelve to eighteen credit hours with a grade point average of 3.00 or higher on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser
- Proficiency in German, French, or an approved substitute is required as a tool of research for students writing a musicology thesis
- Two comprehensive examinations: one in music history and theory, and one in student's field of specialization taken during or after the semester in which the required course work is completed and before registering for 67.749, 67.797, or 67.798. The second examination for performance specialists is the Master's Recital.
- Thesis or an approved substitute

Composition Track: 67.798 Nonthesis Option Seminar (a large composition with a jury or public performance)

Musicology Track: 67.797 Master's Thesis Seminar

Performance Track: 67.797 Master's Thesis Seminar or 67.749 Research Performance: Lecture Recital.

Theory Track: 67.797 Master's Thesis Seminar

Piano/Vocal Pedagogy Track: 67.797 Master's Thesis Seminar or 67.798 Nonthesis Option Seminar

Course Requirements

Composition

- 67.537 Music: Analytical Studies (3)
- 68.794 Advanced Music Composition (3)
- Eighteen credit hours of electives to complete twenty-four credit hours of course work
- Six credit hours to fulfill the nonthesis option

Musicology

- 67.536 Research Methodology in Music (3)
- Four or more of the following graduate-level music history and literature courses:
67.520 Studies in Music Literature (3)
67.529 Medieval Music (3)
67.530 Renaissance Music (3)
67.531 Music of the Baroque Era (3)
67.532 Music of the Classical Era (3)
67.533 Music of the Romantic Period (3)
67.534 Music of the Twentieth Century (3)
67.535 Studies in Music History (3)
- Nine credit hours of electives to complete twenty-four credit hours of course work
- Six credit hours to fulfill the thesis option

Performance

- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- Four to six credit hours of applied music at the graduate level (67.527 Advanced Conducting, for conducting specialists)
- Eight to ten credit hours of electives to complete twenty-four credit hours of course work
- Six credit hours to fulfill the thesis or nonthesis option

Theory

- 67.524 Studies in Music Theory (3)
- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- Fifteen credit hours of electives to complete twenty-four credit hours of course work.
- Six credit hours to fulfill the thesis option.

Piano/Vocal Pedagogy

- 67.536 Research Methodology in Music (3)
- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- 67.547 Pedagogy III (3)

- 67.528 Diction for Singers (2)
or
Advanced Chamber Music
- Six credit hours of applied music at the graduate level; supervised teaching
- Fifteen credit hours of electives to complete twenty-four hours of course work
- Six credit hours to fulfill the thesis or nonthesis option
- Two half-recitals

Note: Course work may not include more than four credit hours of 67.545 Chamber Ensembles (I), more than four credit hours of graduate-level applied music (six for performance and composition majors), or more than six credit hours of graduate-level nonmusic courses or independent study (such courses must be approved in advance by the department chair).

M.A. in Performing Arts: Arts Management

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed nine or more undergraduate courses in theatre, dance, music, or visual arts, one-third of which must be advanced work or its equivalent. Equivalent training is understood to be four or more years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of twelve credit hours of work with a minimum grade point average of 3.00 (on a 4.00 scale).

Degree and Major Requirements

- A total of forty-five credit hours of approved graduate work
- Advancement to candidacy on completing twelve to eighteen credit hours with a grade point average of 3.00 or higher on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser
- A four-hour comprehensive examination covering three areas: arts management, administration, and an art area of specialization
- A thesis written in conjunction with 67.797 Master's Thesis Seminar (6)

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Case Studies in Performing Arts Management (3)

- 67.673 Fund-Raising Management for the Arts (3)
- 67.585 Creative Theories and Criticism in Performing Arts (3)
- 67.691 Performing Arts: Internship (6)
or
67.692 Cooperative Education Field Experience (1-6)
- Two electives in nonmanagerial arts-related topics
- Six credit hours to fulfill the thesis requirement
- The remainder from courses in business administration, communications, public relations, or public administration

M.A. in Performing Arts: Dance

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed eight to ten courses or the equivalent in undergraduate dance, theatre, or music, half of which must be in dance. Equivalent training is understood to be four to six years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview, at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of twelve credit hours of work in the department with a grade point average of 3.00 (on a 4.00 scale).

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work

Courses are based on the student's chosen area of focus and are selected in consultation with an adviser.

Students are urged to structure their degree programs so as to develop individual talent and may do so in close counsel with their advisers.

- Advancement to candidacy on completing twelve to eighteen credit hours with a grade-point average of 3.00 or higher on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser
- A four-hour comprehensive examination covering three areas determined by the student and adviser
- Thesis option: 67.797 Master's Thesis Seminar and a written research project in the field of history, criticism, performance and choreographic theory, methods of teaching, body knowledge, or related areas approved by the adviser, committee, and the department graduate studies committee before work begins

Nonthesis option: 67.798 Nonthesis Option Seminar which may include a performance in the area of the student's specialization, e.g., choreography or dance

performance approved by the adviser, committee, and the department graduate studies committee before work begins. The completed project includes a written production book.

Special Opportunities

Information regarding graduate assistantships in dance is available from the department.

Graduate Certificate in Arts Management

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed nine or more courses in theatre, dance, music, or visual arts, one third of which should be advanced work or equivalent training. Equivalent training is four or more years' experience in a professional organization. Application and official transcripts should be submitted to the University Programs Advisement Center, McKinley 153. Students are also encouraged to schedule a personal interview with the program director.

Certificate Requirements

- Fifteen credit hours of approved graduate study

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Case Studies in Performing Arts Management (3) (Two case studies must be taken to satisfy this requirement.)
- 67.673 Fund-Raising Management for the Arts (3)
or
67.585 Creative Theories and Criticism in Performing Arts (3)

Graduate Certificate in Dance

Admission to the Program

Applicants should meet the minimum university requirements for graduate study. In exceptional cases, four to six years' experience in a professional dance company may substitute for the bachelor's degree. Submit application and official transcripts to the University Programs Advisement Center, McKinley 153. Students are encouraged to schedule a personal interview with the director.

Certificate Requirements

- Fifteen credit hours of approved graduate study

Course Requirements

- Five of the following:

- 67.506 The Moving Body (3)
- 67.507 Principles of Movement (3)
- 67.596 Exploring Washington's Research Resources (3)
- 67.602 Modern Dance III (3)
- 67.604 Advanced Ballet (3)
- 67.605 History and Philosophy of Dance I (3)
- 67.606 History and Philosophy of Dance II (3)
- 67.610 Workshop in Dance Production (3)
- 67.611 Composition of Dance I (3)
- 67.612 Composition of Dance II (3)

Philosophy and Religion

Chair Charles S.J. White

Full-Time Faculty

Professor H.A. Durfee (Emeritus), C.D. Hardwick, J.H. Reiman (William Fraser McDowell Professor), R.T. Simonds, C.S.J. White

Associate Professor G. Greenberg, D.F.T. Rodier, P.H. Scribner

Instructor T. McGarrity

Philosophy can be the avenue to develop skills in clear thinking and accurate writing. It offers the challenge of interpreting the work of the individuals who have created our intellectual traditions. Philosophy probes the nature of the real world, the basis of human values, and the foundations of reason. Students at The American University approach these issues through study of both historical literature and contemporary developments. Graduates of our undergraduate program pursue graduate work not only in philosophy but in such related areas as history and literature.

Many positions in science and industry require the kinds of analytical skills gained through the study of philosophy. Philosophy teaches precision in reasoning and clarity in expression—assets in any field. The study of philosophy has often preceded preparation for law, medicine, social work and the ministry, and other professional careers. In the humanities the study of philosophy leads to GRE skills similar to those in the sciences. The Washington Consortium of Universities also offers a wide variety of courses in philosophy that American University students can take.

Religion is not only for those planning professional careers in the field. The study of Western and Eastern religious traditions introduces students to a major influence on all civilizations. Few other university programs can so vividly set the American experience in a comparative cultural context. Future journalists, diplomats, and government specialists will benefit from a serious consideration of the inner workings of the religious ethos of civilizations. We are reminded by daily events that there is no more motivating factor in the cultures of nations than ardently

held religious belief. A thorough understanding of the modern world requires familiarity with its religious heritage.

The American University's Washington, D.C. setting is advantageous for the study of religion. Christian and Jewish groups maintain national offices in the capital; representatives of non-Western religions have shrines in the metropolitan area. The religious leadership centered in Washington, D.C. welcomes the interest of students in their way of life.

B.A. in Philosophy

In addition to the major, students in the honors track receive Departmental Honors in Philosophy.

Admission to the Program

Admission is through a formal declaration of major. The department counsels freshmen and new transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-nine credit hours with grades of C or better

Course Requirements

- Thirty credit hours in philosophy and religion, including nine credit hours in philosophy at the 300 level or above, and up to nine credit hours in religion
- Nine credit hours in a single department outside of philosophy and religion, including six credit hours at the 300 level or above

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Religion

Admission to the Program

Admission is through a formal declaration of major. The department counsels freshmen and new transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline

Major Requirements

- A total of thirty-nine credit hours with grades of C or better

Course Requirements

- Thirty credit hours in religion and philosophy, including nine credit hours in religion at the 300 level or above, and up to nine hours in philosophy or Jewish studies
- Nine credit hours in a single department outside of philosophy and religion, including six credit hours at the 300 level or above

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Philosophy

Minor Requirements

- A total of twenty-one credit hours, including at least nine at the 300 level or above

Course Requirements

- 60.100 Introduction to Logic (3)
- Three credit hours chosen from the following:

- 60.105 Western Philosophy /A 2:1 (3)
- 60.300 Ancient and Medieval Philosophy /A (3)
- 60.301 Modern Philosophy from Bacon to Hegel /A (3)

- Fifteen credit hours in philosophy (or twelve credit hours in philosophy and three credit hours in religion)

Minor in Religion

Minor Requirements

- A total of twenty-one credit hours, including at least nine at the 300 level or above

Course Requirements

- Nine credit hours chosen from the following:
 - 61.105 Religious Heritage of the West /A 2:1 (3)
 - 61.150 Introduction to the Old Testament (3)
 - 61.170 Introduction to the New Testament (3)
 - 61.185 Forms of the Sacred: Religions of the East /A 3:1 (3)
 - 61.220 Religious Thought /A 2:2 (3)
- Twelve credit hours in religion (or nine credit hours in religion and three credit hours in philosophy)

M.A. in Philosophy

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination (GRE) General is optional.

Degree and Major Requirements

- At least thirty credit hours of approved graduate work, including six hours of 60.797 Master's Thesis Seminar
- Advancement to candidacy after successful completion of twelve credit hours of graduate work
- Proficiency examination in French or German as a tool of research
- One eight-hour examination in philosophy (administered on two days, four hours each day). Examination fields 60.01A and 60.01B.
- Thesis and oral defense of thesis

M.A. in Philosophy and Social Policy

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed at least one introductory course in philosophy with a grade of B or better. Admission is based on academic record and

two letters of recommendation. The Graduate Record Examination (GRE) is optional.

Degree and Major Requirements

- Thirty-three hours of approved graduate work, including a three-credit-hour internship in an appropriate setting (e.g., NIH, NIMH, a hospital, a prison) followed by a substantial paper analyzing the ethical and social issues arising in that experience. Students who are already employed full-time may request permission to receive credit for appropriate earlier work or volunteer experience, but the paper will still be required. No thesis is required; in its place students take seminars among their required courses.
- One four-hour comprehensive examination in philosophy

Course Requirements

- 60.520 Seminar on Ethical Theory (3)
- 60.525 Seminar on Modern Moral Problems (3)
- 60.602 Nineteenth Century Philosophy (3)
- 60.603 Twentieth Century Philosophy (3)
- 60.641 Philosophy of the Social Sciences (3)
- 60.645 Seminar on Theories of Human Nature (3)
- Two elective graduate courses (six credit hours) in philosophy or religion, with departmental approval
- Two courses in social science or social policy (six credit hours), chosen with departmental approval from fields such as economics, sociology, anthropology, government, public administration, and justice

M.A. in the History of Religions: Hindu Tradition

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have a suitable background in religious or South Asian studies. Admission is based on academic records and two letters of recommendation. GRE General is recommended. Applications are made directly to the Department of Philosophy and Religion.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work, including six credit hours of master's thesis seminar
- Advancement to candidacy after successful completion of twelve credit hours of graduate work
- An examination in either French or German (another modern language may be substituted with approval)
- Comprehensive examination with the following three components, given during the last semester of course work: methods in the study of religions; the Hindu tradition; and thematic comparisons between the

Hindu tradition and at least one other tradition of the student's choice

- Thesis on one particular aspect of the Hindu tradition, submitted during the final semester of course work

Course Requirements

Thirty credit hours of approved graduate-level course work at the member universities of the Consortium of Universities of the Washington Metropolitan Area, including:

- Two semesters of either Sanskrit or Hindi (when appropriate, this requirement may be waived by examination)
- George Washington University course Rel. 158
- Georgetown University course 195-058
- Catholic University of America course 874
- The American University course 61.694 Graduate Seminar in Religious Studies (3-12)
- One course in methodology
- Six credit hours of Master's Thesis Seminar at the student's home university (for American University students this is 61.797)

Physics

Chair Romeo A. Segnan

Full-Time Faculty

Professor E.R. Callen (Emeritus), M. Harrison (Emeritus), R.B. Kay, H.R. Reiss, R.A. Segnan, R.V. Waterhouse (Emeritus), J.A. White

Assistant Professor B.S. Flanders, R.M. Kille, F.A. Volkenging

Research Faculty

Research Professor R. Arnold, Z. Bay, S. Rock

Associate Research Professor P. Bosted, Z. Szalata

Physics is the study of the basic properties of the physical universe: gravitation, electricity and magnetism, atomic and nuclear structure, and aggregate matter. The department supports three areas of research concentration: high-energy nuclear physics in an outstanding collaborative program with the Stanford Linear Accelerator Center (SLAC); condensed matter physics with specializations in solid-state magnetism, physical acoustics, and the study of phase transitions in systems near their critical points; and intense field/laser studies on the interaction of intense electromagnetic radiation with matter. All students are encouraged to participate in research.

There are two tracks in the B.S. major. The applied track has all of the pre-engineering components, including seventeen hours of electronics. It prepares students for many technical positions which currently exist in industry and government. The graduate preparation track is for stu-

dents who plan to enter M.S. and Ph.D. programs. It includes more high-level courses in quantum physics, mechanics, and electricity and magnetism.

The department also offers a B.S. degree in Audio Technology (see Audio Technology in this chapter) and, in conjunction with the Department of Computer Science and Information Systems and the Department of Performing Arts, a B.A. in Music and Technology.

Experimental and theoretical research projects are available for graduate students. The M.S. degree qualifies students for many research-and-development positions, including those at research laboratories. The Ph.D. degree is offered for students who have performed exceptionally in their M.S. work and who have obtained the sponsorship of a faculty member who will be the student's major professor. The department actively collaborates with many of the Washington-area research laboratories; in appropriate cases, dissertation and thesis research may be performed at these laboratories.

B.S. in Physics

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and approval of the department undergraduate adviser. The department counsels freshmen and transfer students.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty credit hours with grades of C or better

Course Requirements

- 51.110 University Physics I / N 5:1 (4)
- 51.210 University Physics II / N 5:2 (4)
(51.110 and 51.210 may be waived for students with exceptional high-school preparation.)
- 51.452 Advanced Laboratory (3)
- 51.301 Modern Physics (3)
- 51.302 Classical Mechanics (3)
- 51.303 Electricity and Magnetism (3)
- 15.110 General Chemistry I / N 5:1 (4)

- 15.210 General Chemistry II /N 5:2 (4)
(or equivalent)
- 15.410 Physical Chemistry I (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.321 Differential Equations (3)
- 40.260 Introduction to Computing /N (4)
or
- 40.280 Introduction to Computer Science I /N (4)

Options

Applied Physics Courses

- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 50.322 Electronics Lab I (2)
- 50.323 Electronics Lab II (2)
- 50.500 Digital Interfacing (4)
- 50.501 Microprocessors (4)

Graduate Preparation Courses

- 51.530 Mechanics (3)
- 51.551 Electromagnetic Waves and Optics (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.571 Special Topics in Applied Quantum Mechanics (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)

Other Recommendations

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)
- 40.281 Introduction to Computer Science II /N (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Music and Technology

The B.A. in Music and Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the Department of Computer Science and Information Systems and the Department of Performing Arts. This innovative program focuses on the new technology of sound synthesizers and computers with practical applications in concerts and recordings. In this program students develop skills needed in mastering the new technology that

is bringing about innovations in music and is creating a unique collaboration between technology and art.

Students are required to take a forty-four credit hour core curriculum and twelve credit hours of required courses to be chosen from three available options: Audio Technology, Computer Science, or Music.

Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the department undergraduate advisor. To determine students' previous history/competency in the three areas, special advising will be provided throughout the program.

Note: students with no formal musical background will be required to take 67.126 Music Theory for Nonmajors before being admitted to the major.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-six credit hours with grades of C or better

Course Requirements

- 40.260 Introduction to Computing (4)
or
- 40.280 Introduction to Computer Science I (4)
(must be taken by students who intend to follow the required option in Computer Science)
- 41.170 Precalculus Mathematics (3)
- 50.201 Fundamentals of Audio Technology (3)
- 50.202 Audio Technology Laboratory (1)
- 50.310 Sound Synthesis I (4)
- 50.320 Sound Synthesis II (4)
- 50.330 Advanced MIDI Applications (3)
- 50.345 Ensemble Productions I (3)
- 50.350 Ensemble Productions II (3)
- 67.110 Understanding Music (3)
- 67.124 Music Theory I (3)
or
- 67.127 Musicianship I (3)
- 67.125 Music Theory II (3)

or
67.128 Musicianship II (3)

- 67.323 Music History II (3)
- 68.100 Class Instrumental Study (1)
- One elective in music (67.xxx) (3)

Note: If students have had previous courses or experience that warrant initial placement in higher level courses, alternative requirements will be identified by the advisers.

Required Options

A minimum of twelve credit hours chosen from the following courses, with at least nine credit hours in one of the three areas below:

Audio Technology

- 50.230 Acoustics (3)
- 50.384 T.V. Studio Operations (3)
- 50.410 Sound Studio Techniques (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 50.440 Synthesizer Performance Seminar (3)
- 50.450 Electronic Composition and Concert Design (3)
- 50.500 Digital Electronics (4)

Computer Science

- 40.281 Introduction to Computer Science II (4)
- 40.282 Assembly Language Programming (4)
- 40.330 Organization of Computer Systems (3)
- 40.341 Organization of Programming Languages (3)
- 40.560 Microcomputer Architecture (3)
- 40.568 Artificial Intelligence (3)

Music

- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.320 Music Theory III (3)
- 67.321 Music Theory IV (3)
- 67.324 Music Theory V (3)
- 67.325 Music Theory VI (3)
- 67.326 Orchestration (3)
- 68.122 Private Instrumental Study (2)
- 68.444 Music Composition (3)
- One approved elective in music (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the

section on the University Honors Program in this catalog for further details.

Minor in Physics

Minor Requirements

- A total of eighteen credit hours

Course Requirements

- 51.105 College Physics I / N 5:1 (4)
or
51.110 University Physics I / N 5:1 (4)
- 51.205 College Physics II / N 5:2 (4)
or
51.210 University Physics II / N 5:2 (4)
- 41.221 Calculus I / N (4) and
41.222 Calculus II / N (4)
or
41.211 Applied Calculus I / N (4) and
41.212 Applied Calculus II / N (3)
- 51.301 Modern Physics (3)
- 51.302 Classical Mechanics (3)
or
51.303 Electricity and Magnetism (3)

M.S. in Physics

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation (unless the previous degree was earned in the department), and approval of the department graduate advisers. The department counsels entering graduate students.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- Two written comprehensive examinations: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics, and 51.002 Electromagnetism, Quantum Mechanics, Applications
- Nonthesis option: six credit hours of advanced work approved by the department graduate advisers
- Thesis option: an approved thesis in conjunction with 51.797 Master's Thesis Seminar

Course Requirements

- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 51.530 Mechanics (3)
- 51.551 Electromagnetic Waves and Optics (3)

- 51.570 Introduction to Quantum Mechanics (3)
- 51.565 Basic Concepts in Statistical Physics (3)
or
15.546 Thermodynamics and Statistical Physics (3)
- Two courses chosen from the following:
51.630 Mechanics I (3)
51.631 Mechanics II (3)
51.650 Electromagnetic Theory I (3)
51.651 Electromagnetic Theory II (3)
51.670 Quantum Mechanics I (3)
51.671 Quantum Mechanics II (3)
- Six credit hours to fulfill the thesis or nonthesis option

Ph.D. in Physics

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation (unless the previous degree was earned in the department), and approval of the department graduate advisers. The department counsels entering graduate students.

Research Concentrations

Nuclear high-energy experimental physics, condensed matter physics, and intense field/laser physics

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work
- Advancement to candidacy after qualifying examination and approval of the dissertation proposal by the department graduate advisers
- Proficiency in a language or computer science or another tool of research approved by the student's dissertation committee
- The M.S. comprehensive examinations, 51.001 and 51.002, both passed with distinction
- Four approved comprehensive examinations: 51.005, 51.006, 51.007, and 51.008 (oral) covering the subject area of the dissertation and material relevant to the area of research. The examinations 51.001 and 51.002 may be substituted for 51.005.
- Dissertation prepared in consultation with the student's dissertation committee and approved by that committee and the department graduate advisers
- Specialized seminars in the area of research concentration coordinated with the student's major professor

Course Requirements

- 51.630 Mechanics I (3)
- 51.631 Mechanics II (3)

- 51.650 Electromagnetic Theory I (3)
- 51.651 Electromagnetic Theory II (3)
- 51.670 Quantum Mechanics I (3)
- 51.671 Quantum Mechanics II (3)
- 51.799 Doctoral Dissertation Seminar (12)

Pre-engineering

Faculty Liaison Anita LaSalle (CSIS)

Administrative Liaison Naomi S. Baron, Associate Dean for Undergraduate Affairs, College of Arts and Sciences.

The American University offers cooperative five-year pre-engineering programs through the Washington University in St. Louis and the University of Maryland in College Park. Through these programs, American University students can combine the advantages of both liberal arts and professional education. Students are awarded two bachelor's degrees in a five-year period.

The Three-Two Program

Students spend three years on the American University campus concentrating in a major field in the College of Arts and Sciences. In the third year, with recommendation of a pre-engineering adviser, students apply to the engineering program at either Washington University or the University of Maryland. After admission to the program, the fourth year of study is spent at the cooperating university. Once the student completes the requirements for the American University major (generally at the end of the fourth year), the first bachelor's degree is awarded. After completion of the pre-engineering requirements during the fifth year, the student receives a bachelor's degree in engineering from the cooperating university.

Plan of Study at The American University

Students work closely with a faculty adviser in one of the natural science departments, the Department of Mathematics and Statistics, the Department of Computer Science and Information Systems, or the office of the Associate Dean for Undergraduate Affairs. Advisers will individually tailor course selection to meet the student's interests and needs. Students are generally advised to major in either mathematics or natural science, and to maintain a high grade-point average. If, however, the student chooses to complete a major in the arts, humanities, or social sciences, he or she may do so, provided that the engineering program requirements are also satisfied. Completion of basic courses must be done during the first three years of study in order to complete the requirements for an engineering degree in five years. Courses with grades below C will not transfer to the cooperating schools.

Course Requirements

The engineering programs at Washington University and the University of Maryland have basic requirements which must be completed before entrance. The requirements cover a broad range of study.

Washington University

- English: evidence of ability to communicate effectively in written form as demonstrated by course work, acceptable examination scores, or college certification of proficiency
- Calculus: sequence through multivariate calculus plus differential equations
- Physics: a two-course sequence employing calculus and including laboratory
- Chemistry: a two-course sequence including laboratory
- Computer programming: one course in programming.
- Humanities and social sciences: at least eighteen credit hours. At least eight of the eighteen credit hours must be in one department, including one course at the junior or senior level. No more than nine credit hours of the performing arts or skill courses may count toward the required eighteen credit hours. Courses having a distinctly mathematical or natural science content, even if listed under the humanities or social science department, are not acceptable for this requirement.
- For Chemical Engineering: two-course sequence in organic chemistry

Special Opportunity

A student may also plan such combined degree programs as B.A./B.S./M.S. and B.A./B.S./M.B.A. by allowing six years for such programs.

University of Maryland

- English: two courses in English composition
- Mathematics: two or three years of mathematics, including calculus and differential equations
- Physics: two years of general physics with laboratory and more in-depth study in mechanics and in electromagnetism or thermodynamics
- Chemistry: one year of general chemistry with laboratory
- Computer programming: one course of programming
- Humanities and social sciences: five courses in the humanities and the social sciences
- For Chemical Engineering: two-course sequence in organic chemistry.

Prelaw

Prelaw Advising Prelaw advising is available from the prelaw advisers: Carl E. Cook in the College of Arts and Sciences, Arthur Harris in the Kogod College of Business Administration, and Athena Smith in the School of Public Affairs.

In considering law school, it is important that the prelaw student understand law schools' educational philosophy. As the *Law School Admission Bulletin* states: "Any course, regardless of field, that helps you develop clear and systematic thinking, command of the English language, and a broad understanding of our society constitutes sound preparation for the study of law. Thus, law schools do not recommend specific undergraduate majors for prelaw students." The prelaw student should also realize that admission to law school is selective. Students contemplating careers in law should plan their undergraduate study to undertake a substantial academic curriculum and acquire a background of outstanding extracurricular activities.

Undergraduate Program in Prelaw

General Information

The student aspiring to the profession of law may select any major. The university does not offer a prescribed prelaw major.

The student interested in prelaw preparation follows the normal procedure for declaring a major in one of the schools or departments or in gaining approval for an interdisciplinary program of study.

By the end of the sophomore year, the prelaw student chooses a major. The student satisfies the requirements of this major as specified by the department or the approved interdisciplinary program. Whatever the choice of major, the prelaw student's program should be supported by a broad selection of courses from mathematics, the natural sciences, the social sciences, and the humanities.

Recommendations

Courses recommended by law schools include philosophy, literature and advanced writing courses, history, political science, accounting, business administration, economics, mathematics, languages, and other courses demanding logical thinking, analytical reasoning, or verbal proficiency.

The Law School Admission Test (LSAT) is required of every applicant to law school. It is strongly recommended that this test be taken in June before the senior year. With this test date, students can appraise their prospects and consider retaking the examination in October or December or both, or, if necessary, make alternate plans. Students apply directly to the Law School Admissions Service (LSAS) to take the test on the American University campus and should register six weeks before the test date. The Law School Admission Test applications are available in the offices of the prelaw advisers of the schools mentioned above. The *Pre-Law Handbook*, published by the Law

School Admissions Service, is helpful in describing law schools and their requirements. This handbook is available in the offices of the prelaw advisers and in the American University campus book store. Also available from the prelaw advisers is the *Pre-Law Guide: Questions and Answers*, which discusses the preparation for law school, the mechanics of applying, and the law school experience itself.

Honor Society

Qualified sophomores, juniors, and seniors may apply for membership in the University's prelaw honor society, Sigma Phi Omega. The prelaw honor society sponsors various activities related to the law school application process and the law school experience. It also hosts guest speakers who discuss social issues as they relate to the legal profession. All programs sponsored by the prelaw honor society are open to the university community. Consult the School of Public Affairs for an application and additional information.

Premedical Programs

Coordinator Stephen C. Grebe (Biology)

Administrative Liaison Naomi S. Baron, Associate Dean for Undergraduate Affairs, College of Arts and Sciences

The College of Arts and Sciences' premedical programs prepare students for professional study in medicine, dentistry, and veterinary medicine. The premedical programs are open to students throughout the university. Traditionally, many premedical students have majored in the natural sciences. However, the medical professions are expressing increasing interest in students who come to their professional studies with broad-based liberal educations, reflecting the social, ethical, and cultural roles played by physicians and other health care professionals in contemporary life.

Premedical Curriculum

Most health professional schools require the same foundation courses in mathematics and the sciences, along with a full year of college-level writing. Science courses must include laboratory components. The following sequence of courses permits the most convenient means of completing the necessary required courses in time to take the Medical College Admissions Test (MCAT) or Dental Aptitude Test (DAT) in the spring of the junior year.

Note: Potential Biology majors must also take 09.110 and 09.210 in their freshman year.

Freshman Year

Fall:

- 15.110 General Chemistry I / N 5:1 (4)
- 41.170 Precalculus Mathematics / N (3)

Spring:

- 15.210 General Chemistry II / N 5:2 (4)

- 41.221 Calculus I / N (4)

Sophomore Year

Fall:

- 09.110 General Biology I / N 5:1 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)

Spring:

- 09.210 General Biology II / N 5:2 (4)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)

Junior Year

Fall:

- 51.110 University Physics I / N 5:1 (4)

Spring:

- 51.210 University Physics II / N 5:2 (4)
- Students are also encouraged to take two or more upper-level courses in biology and chemistry.

The above sequence presumes that a student has already decided by the beginning of his or her freshman year to pursue a premedical course of study. However, students who do not make this decision until the sophomore or even the beginning of the junior year are not precluded from selecting a career in medicine. The American University provides sufficient flexibility and resources to enable serious students the opportunity to prepare for medical studies. Students who do not decide on a medical career until the middle of their undergraduate studies may need to complete their premedical requirements during summers or in a post-baccalaureate year.

Academic Advising

The coordinator for premedical programs meets with students each year to review their academic progress and to discuss their course of study at The American University. Working in concert with the student's academic adviser in the major area of study, the coordinator helps assure a timely completion of both degree and premedical requirements.

On-Campus Programs

Alpha Epsilon Delta, the National Premedical Honor Society, has a resident chapter on the American University campus (the District of Columbia Beta Chapter). This active organization sponsors weekly seminars, in which researchers, medical school officials, and prominent local physicians speak on issues of current interest in medicine and medical education. Students are encouraged to conduct original biomedical research projects, visit local medical institutions, and become affiliated with local private medical practitioners. Alpha Epsilon Delta also sponsors health fairs, campus-wide symposiums, and speakers in the dormitories who address medical and health issues of interest to the entire campus population.

Internship Opportunities

Many junior and senior premedical students have participated in research at the National Institutes of Health, the Naval Medical Research Institute, the Walter Reed Army Institute of Research, and the Department of Public Health of the District of Columbia. In addition to gaining a wealth of firsthand knowledge and insight, students may also receive academic credit for their involvement in these projects.

Application and Admissions

In the past several years, 80% of the A.U. students who have applied to medical, dental, or veterinary schools have been accepted by one or more programs (the national average is 65%). Students from The American University's premedical programs have been admitted to a wide range of professional schools, including the University of Pennsylvania, The Johns Hopkins University, Georgetown University, the University of Virginia, the University of Chicago, the Medical College of Virginia, and the Uniformed Services University of Health and Sciences in Bethesda, Maryland. To assist both the applicants and the schools considering them, the Premedical Evaluations Committee interviews the students and thoroughly examines their records in order to prepare a comprehensive letter of recommendation, which is sent to professional schools.

Psychology

Chair Carol S. Weissbrod

Full-Time Faculty

Professor A.L. Berman, D.L. Chambless, J.J. Gray, A. Leventhal, B.W. McCarthy, E.M. McGinnies (Emeritus), S.R. Parker, A.L. Riley, M. Röch (Emeritus), A.M. Silberberg, B.M. Slotnick, S.J. Weiss

Associate Professor C.S. Weissbrod, B.T. Yates

Assistant Professor A.H. Ahrens, B.D. Fantle, D.A. Haaga, F.Z. Peynircioglu

The undergraduate program in the Department of Psychology offers the student an opportunity to appreciate psychology's diversity and its applications. Courses are offered in clinical, social, personality, developmental, and experimental psychology. Advanced special topics courses in these and related areas are often available. Students may design programs that approach psychology as a social science, a natural science, or a combination of the two. Advanced students have the opportunity to become actively involved in both psychological research and paraprofessional counseling. During their junior and senior years, majors are encouraged to take small, specialized seminars and engage in supervised independent study. Undergraduate majors also have opportunities for internship experience with community mental health agencies and may participate in ongoing research within the department. The program is sufficiently flexible and broad to satisfy career goals and provide a solid background for graduate study.

Affiliations

Washington, D.C. Veterans Administration Hospital; Baltimore Veterans Administration Hospital; St. Elizabeth's Hospital; Community Psychiatric Center (Bethesda); Georgetown University Hospital (Department of Pediatrics); Kennedy Institute (Baltimore); Children's Hospital (Washington, D.C.) Institute for Behavioral Resources; George Washington University Medical Center; North Center (Washington, D.C.); the Johns Hopkins University School of Medicine; Veterans Administration Medical Center (Perry Point, MD); Alexandria Community Mental Health Center; Woodburn Center for Community Mental Health; Eastern Virginia Medical School, Department of Psychiatry (Norfolk, VA).

B.A. in Psychology

Admission to the Program

Formal admission to the major requires departmental approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty credit hours with grades of C or better

Course Requirements

- 57.105 Psychology: Understanding Human Behavior /S 4:1 (3)
- 57.115 Experimental Foundations of Psychology /N 5:1 (3)
- 42.202 Basic Statistics /N (4)
- One course in bio-psychology chosen from the following:
57.220 Perception /N 5:2 (3)
57.225 Neurobiological Bases of Behavior /N 5:2 (3)
57.240 Drugs and Behavior /N 5:2 (3)
57.360 The Evolution of Behavior (3)
- One course in Learning and Cognition chosen from the following:

57.200 Behavioral Principles /N 5:2 (3)

57.300 Cognitive Psychology (3)

57.370 Learning and Behavior (3)

- Two courses in The Individual, the Situation, and Psychological Health chosen from the following:
57.205 Social Psychology /S 4:2 (3)
57.215 Abnormal Psychology and Society /S 4:2 (3)
57.230 Theories of Personality /S 2:2 (3)
57.333 Health Psychology (3)
57.350 Child Psychology (3)
- Electives to complete the required forty hours.
Note: Only a total of six credits combined of Independent Reading (57.390), Internship (57.491) and/or Clinical Research Practica (57.525) will apply toward fulfilling major requirements.
Students will be advised concerning the 300-500-level courses available to them as electives.

Recommendations

Students should consult their faculty advisers in planning their schedules. Students interested in careers such as those in research and teaching, mental health professions, and personnel and industrial psychology will want to choose curriculums suited to their goals. The breadth of the field of psychology and of the department's course offerings make careful planning important.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Psychology

- A total of twenty-one credit hours (seven courses) in psychology with grades of C or better

Course Requirements

- 57.105 Psychology: Understanding Human Behavior /S 4:1 (3)
- 57.115 Experimental Foundations of Psychology /N 5:1 (3)
- Three credit hours (one course) from the natural sciences division (see B.A. course requirements for specific offerings)
- Three credit hours (one course) from the social sciences division (see B.A. course requirements for specific offerings)
- Electives to complete the required twenty-one hours

Combined B.A./M.A. Program in General Psychology

This program enables full-time students to complete both the B.A. and M.A. in Psychology in five years.

Admission to the Program

Students should apply for this program no later than the first semester of the senior year and no earlier than the first semester of the junior year. Students must have a 3.00 grade-point average in psychology and statistics courses and must have completed at least half of the credit hours required for the B.A. in Psychology. The undergraduate statistics course required for the B.A. must be completed before applying to the M.A. program in General Psychology. Students must submit a completed graduate application form (through the Office of Admissions), Graduate Record Examination (GRE) scores for the General (Verbal, Quantitative, and Analytic) and Advanced Psychology sections, two letters of recommendation, and copies of all college transcripts.

Degree and Major Requirements

- All requirements for the B.A. degree with a major in psychology
- All requirements for the M.A. degree with a major in general psychology

Students may apply two 500-level courses toward meeting the requirements of both degrees.

M.A. in General Psychology

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the GRE General and Advanced Psychology examinations and have completed three undergraduate psychology courses and one undergraduate statistics course before application. Admission is based on academic record, test scores, and two letters of recommendation.

Completion of the degree does not necessarily lead to admission to the Ph.D. program; students who wish to be considered for the Ph.D. program must reapply. Applicants with a B.A. who wish to obtain a Ph.D. in Psychology from The American University should apply directly to the Ph.D. program. If they do not have an M.A., they will earn one as part of the Ph.D. program. See the following description of the Ph.D. program and its clinical and experimental/social tracks for more information.

Up to six credit hours of graduate course work in psychology from another university or up to twelve credit hours of graduate course credit taken at The American University may be transferred. These transfers of credit are subject to approval by the director of the M.A. program.

Tracks

General, Personality/Social, and Experimental/Biological

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work
- The written General comprehensive examination (offered every fall, spring, and summer term)
- Thesis option: The master's thesis involves an original research project. Students must prepare a thesis proposal, collect and analyze data, submit a written thesis, and give an oral defense.

Course Requirements*General Psychology*

- Two courses chosen from the following:
57.505 Advanced Theories of Personality (3)
57.514 Industrial/Organizational Psychology (3)
57.520 The Psychology of Suicide and Life-Threatening Behavior (3)
57.540 Advanced Social Psychology (3)
57.551 Psychopathology: Theory and Research (3)
57.560 Advanced Child Psychology (3)
57.570 Behavioral Medicine (3)
57.596 Selected Topics (nonrecurring) (3): one advanced topics course in the Personality/Social area
- Two courses chosen from the following:
57.501 Physiological Psychology (3)
57.503 Sensation and Perception (3)
57.513 Neuropharmacology: The Biochemistry of Behavior (3)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
57.585 Advanced Human Memory (3)
One graduate seminar in experimental psychology or neuroscience
- One graduate statistics course
- Nonthesis option (General Psychology track only): Six credit hours from the following:
57.525 Clinical Research Practica (3-4)
57.550 Psychological Research I (3)
57.601 Psychological Research II (3)
57.698 Directed Research (3-6)
- Four graduate elective courses totaling twelve credit hours, of which at least six credit hours are from the Department of Psychology.

Personality/Social Psychology

- Four courses chosen from the following:

- 57.505 Advanced Theories of Personality (3)
- 57.514 Industrial/Organizational Psychology (3)
- 57.520 The Psychology of Suicide and Life-Threatening Behavior (3)
- 57.540 Advanced Social Psychology (3)
- 57.551 Psychopathology: Theory and Research (3)
- 57.560 Advanced Child Psychology (3)
- 57.570 Behavioral Medicine (3)
- 57.596 Selected Topics (nonrecurring) (3): One advanced topics course in the Personality/Social area, such as Psychology of Sex Differences or a graduate seminar in clinical, personality, or social psychology
- Two courses from the following:
57.501 Physiological Psychology (3)
57.503 Sensation and Perception (3)
57.513 Neuropharmacology: The Biochemistry of Behavior (3)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
57.585 Advanced Human Memory (3)
One graduate seminar in experimental psychology or neuroscience.
- One graduate statistics course
- 57.550 Psychological Research I (3)
or
57.601 Psychological Research II (3)
- One graduate elective
- Six credit hours from the following:
57.796 Master's Thesis Seminar (3)
57.797 Master's Thesis Research (1-3)

Experimental/Biological Psychology

- Four courses from the following:
57.501 Physiological Psychology (3)
57.503 Sensation and Perception (3)
57.513 Neuropharmacology: The Biochemistry of Behavior (3)
57.515 Biopsychology Laboratory Methods (4)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
57.585 Advanced Human Memory (3)
One graduate seminar in experimental psychology or neuroscience
- Two courses from the following:

- 57.505 Advanced Theories of Personality (3)
- 57.514 Industrial/Organizational Psychology (3)
- 57.520 The Psychology of Suicide and Life-Threatening Behavior (3)
- 57.551 Psychopathology: Theory and Research (3)
- 57.560 Advanced Child Psychology (3)
- 57.570 Behavioral Medicine (3)
- 57.596 Selected Topics (nonrecurring) (3): one advanced topics course in the Personality/Social area
- 57.640 Advanced Social Psychology (3)
- One graduate elective
- One graduate statistics course
- 57.550 Psychological Research I (3)
or
57.601 Psychological Research II (3)
- Six credit hours from the following:
57.796 Master's Thesis Seminar (3)
57.797 Master's Thesis Research (1-3)

Ph.D. in Psychology

There are two tracks within the Doctoral Program, Clinical (APA accredited) and Experimental. Students who have been admitted to the doctoral program in psychology but do not have an M.A. in psychology that has been accepted by the department must first complete special M.A. degree requirements. The master's degree is awarded on completion of the M.A. course requirements and successful defense of a research thesis. The M.A. program described in the preceding section is available to students not admitted to the Ph.D. program.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (General and Advanced Psychology tests). Admission is based on test scores, previous academic performance, and letters of recommendation. Those applicants judged to be among the top thirty or thirty-five are invited for an interview, and the final selection is based on all information, including the interview. Students are admitted for full-time study only.

Tracks

Experimental and Clinical Psychology

M.A. Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- Completion of one comprehensive examination. The nature of the examination is arranged between the student and the student's adviser and may be written or oral.

- Master's thesis: an original research project designed and carried out by the student demonstrating competency in research and an understanding of the substantive issues in the specific area encompassed by the thesis oral defense.
- Advancement to candidacy after satisfactory performance in course work (at least a B average must be maintained with no more than one C), completion of thesis research, satisfactory performance in an oral examination concerning the content of the thesis, and completion of the written general comprehensive examination.

Course Requirements

- One course in statistics
- 57.550 Psychological Research I (3)
or
57.601 Psychological Research II (3)
- Six credit hours from the following:
57.796 Master's Thesis Seminar (3)
57.797 Master's Thesis Research (1-3)

Note: Students may receive credit for graduate-level course work taken outside the Department of Psychology. Courses relevant to the student's special area of study may be taken through the Consortium of Universities of the Washington Metropolitan Area.

Ph.D. Degree and Major Requirements

Students who are admitted without an approved M.A. must meet the M.A. requirements described above before working on Ph.D. degree requirements.

- A total of seventy-two credit hours of approved graduate work, including fifty-four graduate-level credit hours, three hours of thesis seminar, three hours of thesis research, three hours of dissertation seminar and nine hours of dissertation research
- Two tools of research are required but do not result in course credit toward the degree.

The tool requirement is flexible and can be met in a variety of ways: (1) demonstration of knowledge of a language relevant to the student's career; (2) demonstration of mastery in a computer program language; (3) satisfactory completion of one skill-oriented graduate course offered by another department at The American University or by nonpsychology departments of the Consortium universities; (4) service in one clinical institute which is approximately equal in time and difficulty to a full course; and (5) supervised tool training in other settings when approved by the student's adviser and the department chair.

- Four comprehensive examinations outlined by advisers or other faculty members. They are designed to be more comprehensive and professional than conventional comprehensive examinations. They involve students in the kinds of activities they will later engage in as professional psychologists. At least one of the four comprehensives must be oral and at least two must be written.

- **Dissertation:** A written proposal for the dissertation is to be submitted to the dissertation committee by the middle of the second semester of the third year. The original proposal, or a revision thereof, should meet the requirements of the committee by the end of the second semester. This allows adequate time for completion of a quality dissertation even if initial experimentation turns out to be exploratory in nature.

Course Requirements

Clinical Track

- 57.502 History and Systems of Psychology (3)
- 57.550 Psychological Research I (3)
- 57.609 Ethics and Professional Practices (3)
- 57.650 Assessment of Intellectual Functions (3)
- 57.651 Personality Testing (3)
- 57.680 Practicum Training I (3)
- 57.681 Practicum Training II (3)
- Six credit hours of statistics
- Twelve credit hours that are clearly outside the area of clinical psychology
- Twelve credit hours from the following:
57.798 Doctoral Dissertation Seminar (3)
57.799 Doctoral Dissertation Research (1-9)

Experimental Track

- 57.550 Psychological Research I (3)
- Twelve credit hours that are clearly outside the area of experimental psychology
- Twelve credit hours from the following:
57.798 Doctoral Dissertation Seminar (3)
57.799 Doctoral Dissertation Research (1-9)

Special Opportunities

In the fourth year, the clinical student will serve an internship in an appropriate setting outside the university. Special research opportunities in laboratories at the National Institutes of Health and related research institutions are available for students in social and experimental psychology.

Sociology

Chair Samih K. Farsoun

Full-Time Faculty

Professor A. Motz Blum (Emerita), M. Cantor, E. Chow, B. Kaplan (Emerita), F. Lorimer (Emeritus), G. Mueller,

K. Petersen, J.C. Scott (Emeritus), J. Siegenthaler, A. Van der Sluis (Emeritus)

Associate Professor S. Farsoun, K. Kusterer

Assistant Professor B. Dickerson, R. Manning, R. Spalter-Roth, G.A. Young

Sociology explores how individuals, through their collective actions, create and change patterns of social relations and how, in turn these social relations influence people's lives. Sociologists focus on three major levels of analysis, from whole societies as component parts of wider systems, to institutions as component sectors of society, to individuals as participants in two-person groups. They also study varied processes of social change, from migration to social mobility, and from urbanization to mass communication. Finally, sociologists study a wide variety of themes, from racial and ethnic relations to social problems and political change. This quest for knowledge is both an end in itself and a pathway for informed social change.

The graduate program in the department emphasizes sociological theory; social research (especially quantitative); and substantive areas which include macrosociology, social stratification, gender and family and applied sociology. The department also has a joint degree program in Sociology: Justice with the Department of Justice, Law, and Society in the School of Public Affairs.

The undergraduate program requires majors to pursue core sequences in sociological theory and social research and several substantive tracks: social policy, social change, social research, and in the future, social counseling and social work.

Consult the Department of Sociology, McCabe Bldg 232, for detailed descriptions of undergraduate and graduate degree programs.

B.A. in Sociology

Admission to the Program

Formal admission to the major requires department approval.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-three credit hours with grades of C or better

Course Requirements

- 65.100 American Society /S 4:1 (3)
- 65.410 Classical Sociological Theory (3)
- 65.411 Contemporary Sociological Theory (3)
- 65.320 Introduction to Social Research (3)
- 42.202 Basic Statistics /N (4)
- Three hours of advanced research methods (65.42x)
- Fifteen credit hours of electives in sociology, including six hours at the 300 level or above and three hours at the 500 level
- Nine credit hours of electives, including six hours beyond the introductory level selected from one of the following areas: anthropology, computer science, economics, history, statistics, philosophy, political science, or psychology. Electives should be selected in consultation with a departmental adviser.

Recommendations

All majors: Complete 65.100 and at least one 200-level and 300-level elective in sociology before the junior year. Complete 65.320, 65.410, 65.411, and 65.42x during junior year. Choose sociology electives from at least two of the following areas: macrosociology (65.x3x), social psychology (65.x4x), social stratification (65.x5x), work, occupations, and organizations (65.x6x), and other (65.xxx).

Majors interested in graduate study in sociology or related fields: At least one course in statistics. Additional sociology electives from several areas.

Majors interested in careers in social research: Select 65.491 as sociology elective after completing 65.320. Select statistics or computer science as a related field.

Majors interested in careers in social work: Select 65.491 as sociology elective in the junior or senior year. Take at least two courses in social psychology (65.x4x) as sociology electives. Select psychology as a related field.

Special Opportunities

Undergraduate assistantships, carrying a stipend of \$300 and a work commitment of seven hours per week, are awarded competitively each semester to declared majors with a cumulative grade point average of 3.00 who have completed eleven or more credit hours of course work in sociology. Consult the department for details.

Internships: The department offers internship opportunities for majors and minors in the fields of social service, social change, social policy, and social research.

Cooperative Education: The department encourages participation in the co-op program and makes placements each semester in social change, social action, research, and social work agencies. A special supervising sociology co-op program is conducted each year for residence hall advisers.

Double Majors: Because the department requires only ten courses in sociology and one in statistics, a student frequently can work out a double or joint major with other fields such as anthropology, business administration, communication, economics, history, international studies, political science, and psychology. Details can be worked out with department faculty.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Sociology

Minor Requirements

- A total of twenty-one credit hours

Course Requirements

- 65.100 American Society /S 4:1 (3)
- 65.320 Introduction to Social Research (3)
- 65.410 Classical Sociological Theory (3)
- An advanced course in theory (65.411) or methods (65.42x)
- One course at the 200 level
- Two courses in sociology at the 300 level or above

M.A. in Applied Sociology

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have satisfactorily completed (with a grade of B or better) at least twelve credit hours of approved sociology courses (undergraduate or graduate). Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. The Graduate Record Examination is recommended but not required.

The M.A. program is a sequence designed for students beginning their graduate program in the fall. M.A. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin the course work.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- A statistics tool of research examination designated by the Department of Sociology, or a graduate-level statistics course with a grade of B or better (three credit hours) approved by the department
- Two comprehensive examinations, 65.020 Methods of Social Research and 65.010 Sociological Theory.

Full-time students must take the examinations in Sociological Theory and Methods of Social Research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other in August before beginning their third year of study.

- Research requirement: The first half may be satisfied by completion of an advanced seminar in research methods, an advanced seminar in the student's field of concentration, or an independent study course in the field of concentration. To satisfy the second half of the research requirement, the student must enroll in 65.795 Master's Research: Independent Study in Sociology under the guidance of a professor of the student's choice and complete a substantial research report on a topic related to the field of concentration.

Research Requirement

The following requirements encompass a research project under the guidance of a professor of the student's choice, and constitute the M.A. non-thesis research requirement:

- 65.690 Independent Study Project in Sociology (3) in the student's field of concentration
- 65.691 Internship (3)
- 65.795 Master's Research: Independent Study in Sociology (3)

Course Requirements

- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- 65.720 Seminar in Social Research (3)
- Three credit hours in either 65.580 Social Policy Analysis or 65.680 Social Policy Research
- Three credit hours in one other field of concentration selected from the following: Macrosociology, Social Stratification, or Gender and Family
- Three credit hours selected from the following:
500-level statistics courses which have 42.514 Statistical Methods as a prerequisite
03.542 Principles of Applied Anthropology (3)
54.604 Public Program Evaluation (3)
55.511 Concepts in Systems and Information (3)
60.525 Seminar on Modern Moral Problems (3)

M.A. in Sociology

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have satisfactorily completed (with a grade of B or better) at least twelve credit hours of approved sociology courses (undergraduate or graduate). Admission to the program is at the discretion

of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. The Graduate Record Examination is recommended but not required.

The M.A. program is a sequence designed for students beginning their graduate program in the fall. M.A. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin the course work.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work
- Statistics tool of research examination designated by the Department of Sociology, or graduate-level statistics course with a grade of B or better (three credit hours) approved by the department
- Two comprehensive examinations, 65.020 Methods of Social Research and 65.010 Sociological Theory. Full-time students must take the examinations in Sociological Theory and Methods of Social Research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other in August before beginning their third year of study.
- Research requirement: The first half may be satisfied with completion of an advanced seminar in research methods, an advanced seminar in the student's field of concentration, or an independent study course in the field of concentration. To satisfy the second half of the research requirement, the student must enroll in 65.795 Master's Research: Independent Study in Sociology under the guidance of a professor of the student's choice and complete a substantial research report on a topic related to the field of concentration.

Course Requirements

- 65.610 History of Sociological Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- Two courses in one field of concentration selected from the following: Macrosociology, Social Stratification, Gender and Family, and Applied Sociology
- Six credit hours of course work to fulfill the research requirement

Ph.D. in Sociology

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed twelve or more credit hours of approved graduate-level course work in sociology with a grade point average of higher than 3.00 (on a 4.00) scale. Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. The Graduate Record Examination is recommended but not required. Note: The award of an M.A. degree from this department does not automatically qualify a student for acceptance into the doctoral program.

Students who have not completed twelve credit hours of graduate-level course work in sociology, as required, are encouraged to apply to the master's degree program. If admitted to that program, they may later petition the department's Graduate Committee for admission to the Ph.D. program. This requires completion of the M.A. comprehensive examinations, a grade-point average of higher than 3.00 on a 4.00 scale in courses completed as M.A. candidates, and letters of recommendation from two faculty members.

The Ph.D. program is a sequence designed for students beginning their graduate program in the fall. Ph.D. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin course work.

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work
- Tool of research: proficiency in a language approved by the department and in statistics for social research. (At this time demonstration of proficiency in a computer program language may be offered in satisfaction of the language tool requirement.)

Consult the department for details on how to demonstrate proficiency in both tool areas.

- Four comprehensive examinations, one in sociological theory, one in methods of social research, and one each in two other fields of concentration, are required. At least one of these examinations in the student's field of concentration must be oral.

Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other before beginning their third year of study. A maximum of three attempts on these examinations is permitted to doctoral students: one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period

after completion of the required sequence, and one taken in the next examination period.

Satisfactory performance on the comprehensive examinations in Theory and Methods qualifies the doctoral candidate to continue in the Ph.D. program.

The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement at The American University in the fall 1976 examination period or thereafter, provided that this requirement was satisfied no more than three years before admission to the Ph.D. program.

- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done. The candidate must have completed all academic requirements for the degree before the oral examination is taken.

Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete at least thirty credit hours of graduate work in residence at The American University, plus twelve credit hours of dissertation credit.

Course Requirements

- 65.610 History of Sociology Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- 65.710 Seminar in Sociological Theory (3)
- 65.720 Seminar in Social Research (3)

Full-time students must complete 65.610, 65.611, 65.620, and 65.621 during their first year in the degree program. Part-time students must complete the sequence in either 65.610-65.611 (theory) or 65.620-65.621 (methods) during their first year, and the other sequence during their second year.

The basic sequence requirement in theory or methods may be waived for students who receive a grade of satisfactory on the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence.

- Two courses in each of two fields of concentration.

At least one of the doctoral candidate's two fields of concentration must be selected from the following: Macrosociology (65.x3x); Social Stratification (65.x5x); Justice (see program description below); Gender and Family (65.x7x); and Applied Sociology (65.x8x). Supplemental electives include Social Psychology (65.x4x) and Work, Occupations, and Organizations (65.x6x). Subject to departmental approval, the candidate may offer as one field of concentration a special area not in the listing above.

Ph.D. in Sociology: Justice

Admission to the Program

In addition to meeting minimum university requirements for graduate study, applicants must have completed twelve or more credit hours of approved graduate-level course work in Sociology with a grade point average of higher than 3.00 on a 4.00 scale. Admission to the program in Sociology with a specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law and Society in the School of Public Affairs.

To apply for admission to this program, students supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit GRE (General) scores.

The Justice faculty reviews all applicants for the Justice specialization and recommends admission to the Department of Sociology, which makes the final decision.

Degree and Major Requirements

- Seventy-two hours of approved graduate work

Normally these seventy-two hours consist of sixty hours of course work and twelve hours of directed study on the dissertation. At least twelve hours and no more than thirty hours are taken in the Department of Justice, Law, and Society in the School of Public Affairs.

Course Requirements

- Three courses in sociological theory:
65.610 History of Sociological Theory (3)
65.611 Modern Sociological Theory (3)
65.710 Seminar in Sociological Theory (3)
- Two courses in methods of social research:
65.620 Social Research I (3)
65.621 Social Research II (3)
- Two courses in one field of concentration offered by the sociology department: Social Stratification; Macrosociology; Gender and Family; and Applied Sociology.
- At least four courses in the Department of Justice, Law, and Society, including nine hours in one of the following areas: Law and Society, Court Management, Law Enforcement, Corrections, Organization and Administration, and Drug Policy; and three hours in a seminar in justice research.
- Electives to be decided individually between the student and the student's adviser
- Four comprehensive examinations: sociological theory; methods of social research; a field of concentration approved by the Department of Sociology, usually in one of the four areas of concentration (Macrosociology; Gender and Family; Applied Sociology; and Stratification); and the candidate's approved area of concentration administered by the Department of Justice, Law, and Society. At least one of the two examinations in the

fields of concentration must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written. Candidates are permitted to take the examinations in theory and methods no more than three times, one prior to enrollment in the required courses in theory (65.610 and 65.611) and methods (65.620 and 65.621). Students who pass the examinations prior to taking the courses are exempt from the research method and theory course requirements.

- Tools of Research: Before submitting a dissertation, the candidate must demonstrate proficiency in a language approved by both the Department of Sociology and the Department of Justice, Law and Society (at this time demonstration of proficiency in a computer program language may be offered to satisfy the language tool requirement) and statistics for social research. The statistics tool may be satisfied in a number of ways. (For details, see the Graduate Handbook.) One option is six hours of approved statistics courses. These courses, contingent on approval from the program committee, may contribute toward satisfaction of the sixty hours of graduate course-work requirements.
- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least four and no more than five members. The chair of the dissertation committee and one other member are appointed by the Department of Justice, Law, and Society. Two members are appointed by the Department of Sociology.
- A candidate must submit the completed dissertation to the dissertation committee for approval. Before the degree can be granted, the candidate must take an oral examination in which he or she may be questioned over the general field of research done. Before taking the oral examination, the candidate must have completed all academic requirements.

Statistics

Chair Robert W. Jennigan

Full-time Faculty

Professor D.S. Crosby, M.W. Gray, R.H. Holzager, R.W. Jennigan, B.P. Korin, S. Parker, H. Rosenblatt (Emeritus), J.H. Smith (Emeritus)

Associate Professor A.M. Barron, N. Flournoy, M. Greene, E.B. McCue (Emeritus), S. Parker

Assistant Professor S. Hillis, C.T. Machlin (Emerita), R. Modarres-Hakimi, F. Wang

Instructor F. Awartani, E. Kondelis, R. Lee, J. O'Connell, Li Yong

Research Faculty

Research Professor N. Mantel

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C. location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Statistics is concerned with the collection, organization, analysis, interpretation, and presentation of numerical data. The science of statistics is a broad and challenging field. Its breadth can be seen in the way its ideas and techniques have found application in almost every field of study. Statistics has contributed organizational and analytical techniques that provide new insights in fields that range from the physical and life sciences to business, law, history, literature, and the social sciences.

A student majoring in statistics has three tracks available. Those who intend to continue with graduate work in statistics or those with an interest in the theory of statistical methods should follow the sequence for mathematical statistics, which requires a strong background in mathematics. Students wishing an emphasis in the use of statistical techniques should follow the sequence for applied statistics. This track is especially appropriate as a secondary emphasis for students who have a strong interest in a field of application. The third track, actuarial science, prepares students for careers as actuaries in government and the insurance industry.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships

to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Statistics

Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 and departmental approval.

Tracks

Mathematical Statistics, Applied Statistics, or Actuarial Science

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- Mathematical Statistics: a total of forty-seven credit hours with grades of C or better

Applied Statistics: a total of fifty-four or fifty-five credit hours with grades of C or better

Actuarial Science: a total of sixty-two credit hours with grades of C or better

Course Requirements

Mathematical Statistics

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.280 Introduction to Computer Science I /N (4)
- Four additional courses at or above .281 of which two must have the prefix 42 (42.514 cannot be used), as approved by an adviser

Applied Statistics

- 41.211 Applied Calculus I /N (4) and
41.212 Applied Calculus II /N (3)
or
41.221 Calculus I /N (4) and
41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business and Economic Statistics /N (3)
- 42.302 Intermediate Statistics (3)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.260 Introduction to Computing /N (4)
or
40.280 Introduction to Computer Science I /N (4)
- Two additional courses selected from the department as approved by a student's adviser
- At least five approved courses in a related field, such as anthropology, psychology, sociology, economics, biology, business administration, or computer science. The five courses may be selected from more than one teaching unit.

Actuarial Science

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 40.460 Numerical Methods (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics (4)
- 42.300 Business and Economic Statistics (3)
- 42.502 Introduction to Mathematical Statistics (3)
- 41.508 Theory of Interest (3)
- 42.504 Actuarial Mathematics I (3)
- 42.505 Actuarial Mathematics II (3)
- Two additional courses selected from the following:
42.530 Mathematical Statistics I (3)
42.531 Mathematical Statistics II (3)
42.524 Data Analysis (3)
- 42.521 Analysis of Frequency Data (3)

Related Courses

- 40.280 Introduction to Computer Science I (4)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Macroeconomics /S 4:2 (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Statistics**Minor Requirements**

- A total of twenty-four credit hours

Requirements

- 42.202 Basic Statistics /N (4)
- 41.221 Calculus I /N (4)
or
41.211 Applied Calculus I /N (4)
- Four courses at the 300 level or above from 42.xxx or 41.501 Probability (3)
Students may select only one of 42.300, 42.302, or 42.514 for credit toward the minor.

Undergraduate Certificate in Applied Statistics**Admission to the Program**

Open to students with a high-school diploma or Graduate Equivalency Diploma (GED)

Course Requirements

- 40.260 Introduction to Computing /N (4)
- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business and Economic Statistics /N (3)
or
42.514 Statistical Methods (3)
or
42.302 Intermediate Statistics (3)

Five-Year Programs**Admission to Programs**

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.2 on a 4.0 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the

undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

Combined B.S./M.S. in Statistics or Mathematics and Statistics

Students receive a B.S. in Statistics or Mathematics and earn an M.S. in Statistics.

Additional Admission Requirements

Applicants must have completed 41.501 and 42.502 by the end of the junior year.

Degree and Major Requirements

- A total of seventy-eight hours of course work with an undergraduate major in mathematics; seventy-three credit hours of course work with an undergraduate major in statistics
- An approved tool of research
- A written comprehensive examination
- Thesis option: six hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis.

Nonthesis option: three credit hours in 42.690 Independent Study Project in Statistics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in Mathematics or B.S. in Statistics, mathematical statistics track
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
(42.530 and 42.531 must be completed by the end of the senior year.)
- Eighteen additional credit hours of approved graduate courses including 42.600 Advanced Mathematical Statistics I (3)
- Six credit hours of course work to fulfill the thesis or nonthesis option

M.S. in Statistical Computing

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants will be expected to have adequate background in the mathematical sciences. Specifically, program prerequisites are 40.281 Introduction to Computer Science II and 40.282 Assembly Lan-

guage (or equivalents) and three semesters of calculus. In addition, previous work in statistics, probability, and matrix algebra is recommended.

Degree and Major Requirements

- Thirty-six credit hours of approved graduate work. Six hours may be waived for students who have taken 40.520 and 40.521, or 42.530 and 42.531, or their equivalents.
- Written comprehensive examination, 42.007 Statistical Computing
- Six credit hours to fulfill the research requirement

Course Requirements

- 40.520 Algorithm and Data Structures (3)
- 40.521 Design and Organization of Programming Languages (3)
- 41.560 Numerical Analysis: Basic Problems (3)
- 42.524 Data Analysis (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- One of the following:
42.515 Regression (3)
42.520 Applied Multivariate Analysis (3)
- One of the following:
42.584 Stochastic Processes (3)
42.522 Time-Series Analysis (3)
- Two courses selected from the following:
40.540 Computer Systems Organization and Programming (3)
40.568 Artificial Intelligence (3)
40.570 Data Management Systems (3)
40.584 Computer Graphics (3)
- Research Requirement:
42.640 Statistical Computing (3)
42.690 Independent Study Project in Statistics (3-6)

M.S. in Statistics

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants will be expected to have an adequate background in the mathematical sciences. Students entering the M.S. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Tracks

Mathematical Statistics and Applied Statistics

Degree and Major Requirements

- At least thirty credit hours of approved graduate work

- Proficiency in a tool of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis
- Written comprehensive examination (administered in two parts). Majors in Mathematical Statistics take 42.001, Statistical Theory and Probability. Majors in Applied Statistics take 42.005, Statistical Theory and Applications.
- Thesis option: six hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis

Nonthesis option: three credit hours in 42.690 Independent Study Project in Statistics or 42.700 Seminar in Statistics, requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

Mathematical Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)
- 42.600 Advanced Mathematical Statistics (3)
- 42.601 Topics in Advanced Probability and Statistics (3)
- Two additional courses in mathematics or statistical theory for the thesis option. Three additional courses in mathematics or statistical theory for the nonthesis option.
- A student may take up to twelve credit hours as an independent research project.
- Additional research hours of course work to fulfill thesis or nonthesis option

Applied Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)
- 42.600 Advanced Mathematical Statistics I (3)
- Three additional courses in statistical methods and applications (including approved related courses given in other teaching units)
- A student may take up to twelve credit hours as an independent research project.
- Additional research hours of course work to fulfill the thesis or nonthesis option

Ph.D. in Statistics

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants who do not have an M.A. or M.S. in Statistics would ordinarily begin with 42.530 Mathematical Statistics I, 42.531 Mathematical Statistics II, 42.574 Theory of Probability and/or 42.584 Stochastic Processes. Admission is based on academic record and two letters of recommendation.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work including twelve credit hours of 42.799 Doctoral Dissertation Seminar in Statistics. Thirty hours may be transferred into the program by students who have a master's in Statistics.
- Proficiency in two tools of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis. Can be satisfied by previous course work.
- A qualifying examination taken before completion of twenty-four credit hours of course work in the doctoral program
- Four comprehensive examinations, three written and one oral

The fields for the written examinations are: 42.002 Advanced Statistical Theory (administered in two parts), and two chosen from the following: 42.028 Linear Estimation, 42.029 Multivariate Analysis, 42.020 Theory of Sampling, 42.070 Statistical Computing, or an approved outside field. The oral examinations in defense of the dissertation proposal.

- A dissertation directed by a full-time faculty member and an oral defense of the dissertation

Course Requirements

- 42.524 Data Analysis
- 42.600 Advanced Mathematical Statistics
- 42.601 Topics in Advanced Probability and Statistics (may be repeated for credit if topic is different)
- 42.610 Statistical Inference: Estimation
- 42.611 Statistical Inference: Hypothesis Testing
- 42.620 Multivariate Analysis I
- 42.621 Multivariate Analysis II
- 42.670 Linear Estimation I
- 42.671 Linear Estimation II
- 42.799 Doctoral Dissertation Seminar in Statistics

Graduate Certificate in Applied Statistics

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Course Requirements

- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- Three of the following:
 42.510 Theory of Sampling I (3)
 42.515 Regression (3)
 42.516 Design of Experiments (3)
 42.517 Special Topics in Statistical Methodology (3)
 or
 42.519 Nonparametric Statistics (3)

Women's Studies Program

Program Director Muriel G. Cantor (Department of Sociology)

The Women's Studies Program at The American University addresses across the curriculum the essential and often neglected subject of women and the significance of gender in shaping the experiences of communities and individuals. In the required interdisciplinary course for the minor in Women's Studies and in a variety of courses offered by departments throughout the university, students focus on women as subjects and on the ways in which the omission of the consideration of gender has biased the study of human life. Many faculty members with national reputations for their work in gender issues regularly teach these courses. Their students benefit directly from the expertise of women and men who are at the cutting edge of this newly developing field of scholarly endeavor.

In addition to the well-established Women's Studies minor for undergraduates, graduate students can now combine the study of women's issues with the core courses in a traditional discipline to earn an M.A. or Ph.D. degree. Departments participating in the graduate program are Anthropology, Art History, Economics, Education, History, Literature, Psychology, and Sociology.

Special Opportunities

Students who minor in Women's Studies complete an internship off campus in an organization or agency whose mission embraces some aspect of women's lives and experiences. Graduate students have the opportunity for research on women's issues in the many government and nonprofit organizations located in the nation's capital.

Washington, D.C. is the location or headquarters of a diverse number of such organizations as the Institute for Women's Policy Research, Mid-Atlantic Center for Sex Equity, National Organization for Women, Women's Legal Defense Fund, Washington Women's Art Center, and many others. Because of its location, The American University hosts major speakers and lecture series, such as the symposium, "Women in the Changing World," conducted by Jihan Sadat.

In combination with a variety of academic majors, a minor in Women's Studies may lead to a challenging career in an area affecting women's lives, including law, social work, teaching, or research. Graduate students who combine the study of women's issues with their traditional disciplines are sought after by many different kinds of professional and scholarly organizations involved in advocacy, teaching, and research.

Minor in Women's Studies

Admission to the Program

Students who wish to participate in the Women's Studies Program should advise the program coordinator of their interest and complete the declaration-of-minor form.

Course Requirements

- 76.250 The Social Reality of Women /A 4:2 (3)
- 76.491 Internship (3)
- Twelve credit hours of course work, nine of which must be at the 300 level or above, from a list of women's studies courses approved by the Women's Studies Advisory Board

Some representative course offerings include:

- 02.324 Reinventing American Families
- 03.342 Women and Work (3)
- 03.431 Taboos (3)
- 07.307 Women and Art (3)
- 19.303 Sex Roles in Economic Life (3)
- 21.389 Sexism in School and Society: National and International Perspectives /S (3)
- 23.370 A Room of One's Own: Women and Literature (3)
- 29.220 Women in Modern America /S 4:2 (3)
- 34.320 Topics in Jewish Culture: Women and Sex in Jewish Tradition (3)
- 49.323 Women's Health /N (3)
- 57.497 Advanced Topics in Psychology: Psychology of Sex Differences (3)
- 65.352 Women and Society (3)
- 76.150 Women's Voices through Time /A 2:1 (3)

Consult the program coordinator for each semester's course offerings in women's studies.





Home of the Kogod College of Business Administration

Kogod College of Business Administration

Dean Francis Douglas Tuggle

Associate Dean for Graduate Programs Thomas J. O'Connor

Associate Dean for Undergraduate Programs Richard L. Apperson

Assistant Dean for Administration Firouz Bahrampour

Director of Graduate Programs Judith Sugarman

Academic Counselors Arthur Harris, Uma Saini

Full-Time Faculty

University Professor H.E. Striner (Emeritus)

Professor E.R. Alexander, H.K. Baker, C.I. Bartfield, G.E. Biles, D.R. Brenner, T.V. DiBacco, R.B. Edelman, R. Estes, G.T. Ford, H. Glazer, J.E. Hampton (Emeritus), S.R. Holmberg, L.L. Karadibil (Emerita), D.M. Khambata, D.C. Martin, M.B. Mazis, J. Owens (Emeritus), W.H. Peters, M.P. Sampson, M. Seldin (Emeritus), J.H. Sood, F.D. Tuggle, S.D. Whitley (Emeritus)

Associate Professor E.K. Bailey, G.F. Bulmash, J.R. Butts, A.D. Cao, R.H. Gorman, S.H. Ivson, Jr. (Emeritus), D.C. Jacobs, P.J. Jacoby, J.R. Johnson, J. Kokus, Jr., P.C. Kumar, R.L. Losey, M.A. Mass, T. Mroczkowski, A.C. Perry, H.M. Schilit, V. Selman, P.S. Shen, R.M. Springer, Jr., J.L. Swasy, E.A. Wasil, D.B. Webster

Assistant Professor N.A. Bagranoff, J.M. Bailey, J.D. Benjamin, W.H. DeLone, F.L. DuBois, R.W. Harris, M. Hastak, R.G. Linowes, A.P. Marks, A. Mitra, A.L. Phillips, G.E. Powell, L.A. Riddick, A.C. Riley, J.B. Smelser, M. Tichich, R.J. Volkema, D.T. Williamson, S.C. Wisniewski

Instructor A.M. Beck

Mission and Objectives

The Kogod College of Business Administration (Kogod College) prepares men and women for positions of management and leadership in business and society in the local, national, and international communities. The ultimate goal of the college is to produce graduates who possess the knowledge, skills, problem-solving tools, and professionalism essential to the profitable conduct of business in an interdependent world. Instructional emphasis is placed on the basic principles upon which our business, government, and entire economy rest, including providing to every student a broad-based understanding of international business. Basic skills and techniques needed to assume productive roles are emphasized, including computer and information-systems literacy, along with the capacity for continued learning.

The program implements these objectives by offering students a quality education grounded in liberal arts studies which provides students with a foundation for success in achieving their career goals, advancing their education, and contributing to society as responsible citizens. Business ethics and social responsibility are featured.

Within this official statement of objectives are encompassed a desire to provide the common body of knowledge in business administration, to provide the opportunity for advanced study in selected areas of concentration, and to understand the interrelationships among the various functional areas of business. These objectives extend to undergraduate and graduate programs.

The realization of these objectives requires that the college continues to ensure the quality of those graduated from the college; improve the quality of instruction; improve the quantity and quality of scholarly research; and strengthen the undergraduate and graduate curriculum.

Accreditation

Kogod College of Business Administration is accredited by the American Assembly of Collegiate Schools of Business

ness.

Departments and Special Centers

The college is made up of five departments: Accounting (including a Taxation program), Finance and Real Estate (including the Real Estate Center), Management (with the majors of Business Management Information Systems and Human Resource Management), International Business, and Marketing. The International Business Department acts as a matrix department, providing opportunities for professors from other teaching units and other experts in the field to participate in the programs of the college.

As part of the Marketing Center of Excellence, The Center for Marketing Policy Research sponsors research and disseminates information on the effects of government policy on the marketing of goods and services.

The Real Estate Center is dedicated to improving real estate education, research, and public service by fostering a closer working relationship between real estate professionals, their organizations and associations, the students and alumni of the college and the university community. By maintaining close contact with state licensing commissions, realtor organizations and boards, and professional associations, the Real Estate Center provides Kogod College students with access to the business real estate environment of the Washington, D.C. area.

In cooperation with the American Institute of Real Estate Appraisal (AIREA) and the Institute of Real Estate Management (IREM), the Center also offers a number of noncredit courses in appraisal and property management. These courses help prepare students for professional certification in appraisal (MAI and RM) and property management (CPM).

Bachelor of Science in Business Administration (B.S.B.A.)

The undergraduate program is a liberal-arts-based curriculum that also provides in the business core a broad knowledge of business functions followed by the opportunity to concentrate in one of seven major fields of study. The program, leading to a Bachelor of Science in Business Administration, has the following objectives:

1. To develop in each student the ability to write and speak effectively, an appreciation of the arts and humanities, an awareness of social and political problems as well as the history and international and intercultural traditions that shape our world, a background in the natural sciences, and an understanding of mathematics and statistics and their application to business and economic problems
2. To develop an understanding of the American and international economic systems and the important relationship between business and government
3. To provide an understanding of the organizational dynamics of the business enterprise and interpersonal

sonal skills necessary for effective management

4. To provide a background in the concepts, processes, and institutions of the production and marketing of goods and services and the financing of business organizations
5. To provide a foundation in the concepts and application of accounting, quantitative methods, and management-information systems
6. To stimulate the student's intellectual curiosity, to develop the ability to reason logically, and to encourage the consideration of ethical principles

Admission to the Program

Freshman applicants should have demonstrated above-average performance in their college preparatory courses in secondary school. Scores on the CEEB Scholastic Aptitude Test should indicate that the applicant has the potential for success in a rigorous university degree program. Due to the quantitative emphasis of the business administration curriculum, it is strongly recommended that applicants take the Mathematics Achievement Test for placement purposes.

In addition to the requirements for transfer admission described in the Undergraduate Study section of this catalog, transfer applicants to Kogod College from other collegiate institutions should have maintained a minimum grade point average of 2.75. This standard also applies to students transferring to Kogod College from the nondegree program of The American University.

Declaration of Major

Students must be approved by the appropriate department of the college for admission into a major. It is recommended that a major be declared no later than the second semester of the junior year. The minimum standards of performance that must be achieved prior to departmental approval are:

- a cumulative grade point average of 2.00
- a cumulative grade point average of 2.00 in the following prerequisites to the Business Core: 41.211, 19.100, 19.200, 40.260, and 42.202
- a minimum of C in each Business Core course taken by the time the student declares a major

In addition, approval of a declaration of a major in Accounting requires a minimum grade point average of 2.50 for the combination of courses 14.240/241 Principles of Accounting I and II.

Students from other degree-granting units of The American University must satisfy the standards listed above before being accepted on transfer into Kogod College and before a declaration of major is approved.

Majors

Accounting, Business Management Information Systems, Finance, Human Resource Management, International Business, Marketing, Real Estate and Urban Development

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of 120 credit hours
54 credit hours in nonbusiness courses
51 credit hours in business courses as follows: 33 credit hours in business core subjects and 18 credit hours in a business major (21 for Accounting and Business Management Information Systems and 24 for International Business)
9-15 free elective credit hours, depending upon major field

Course Requirements

Students are responsible for fulfilling university and college degree requirements following a prescribed sequence. The Kogod College Office of Undergraduate Programs must be consulted for counseling and advice.

University Requirements

- 23.100 College Writing (3)
or
23.102 College Writing (3)
- 23.101 College Writing Seminar (3)
or
23.103 College Writing Seminar (3)
- 41.211 Applied Calculus I /N (4)

Students with a stronger background in mathematics may take 41.221 Calculus. Students needing to strengthen their quantitative skills should begin with either 41.150 Finite Mathematics or 41.170 Precalculus Mathematics.

General Education Requirements

Please refer to the section of this catalog containing the General Education Program. Kogod College students should fulfill General Education requirements before beginning the junior year of study. A total of six credits, consisting of one foundation course and one second-level course must be completed in each of the following curricular areas: The Creative Arts, Traditions that Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural

Sciences.

Note: The Social Institutions and Behavior curricular area may be fulfilled by completing 19.100 Macroeconomics and 19.200 Microeconomics.

Nonbusiness Prerequisites and Electives

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 40.260 Introduction to Computing /N (4)
- 42.202 Basic Statistics /N (4)
- Six credits of nonbusiness electives

Business Core Courses (eleven required courses)

- 10.352 Introduction to Management Information Systems (3)
 - 10.353 Principles of Organizational Theory, Behavior, and Management (3)
 - 10.355 Production/Operations Management /N (3)
 - 10.452 Business Responsibility in American Society /A,S (3)
 - 10.458 Business Policy and Strategy (3)
 - 11.300 Principles of Marketing (3)
 - 12.300 Fundamentals of International Business (3)
 - 13.365 Corporate Finance (3)
 - 14.201 Business Law (3)
 - 14.240 Principles of Accounting I (3)
 - 14.241 Principles of Accounting II (3)
- The above courses must be completed with a grade of C or better in each course.

Major Courses**Accounting (seven required courses)**

- 14.340 Intermediate Accounting I (3)
- 14.341 Intermediate Accounting II (3)
- 14.345 Cost Accounting (3)
- 14.443 Taxation I (3)
- 14.449 Auditing (3)
- 14.450 Introduction to Accounting Information Systems (3)
- 14.480 Accounting Theory and Problems (3)

Accounting majors preparing for the CPA public practice specialization should complete the following additional accounting courses:

- 14.444 Taxation II (3)
- 14.547 Advanced Financial Accounting (3)

Business Management Information Systems (seven required courses)

- 10.354 Business Applications of Computers /N (3)
- 10.454 Managing Information for Business Decision

Making (3)

- 10.455 Business Management Information Systems Practicum (3)
- 55.455 Introduction to Systems Analysis (3)
- Three additional Kogod College courses from one functional area approved by the student's adviser.

Finance (six required courses)

- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)
- 13.469 Investment Analysis (3)
- 13.474 Real Estate Finance and Economics (3)
- Two from the following:
12.302 International Finance (3)
13.476 Real Estate Investment Strategy (3)
13.571 Financial Futures and Options (3)
14.340 Intermediate Accounting I (3)
14.341 Intermediate Accounting II (3)
19.300 Price Theory (3)
19.301 Income Theory (3)
19.306 Money and Banking (3)
42.300 Business and Economic Statistics (3)

Human Resource Management (six required courses)

- 10.381 Principles of Human Resource Management (3)
- 10.382 Employee Participation in Decision Making (3)
- 10.383 Topics in Human Resource Management (3)
- 10.384 Applications in Performance Appraisal (3)
- Two courses from the following:
10.481 Wage and Salary Administration (3)
10.482 Pension and Benefits Management (3)
10.585 Equal Employment Opportunity (3)
or other course approved by the department.

International Business (eight required courses)

- Four courses in international business:
12.301 International Marketing (3)
12.302 International Finance (3)
Two courses selected from the following:
12.401 Cultural Environment of International Business (3)
12.404 Multinational Accounting Issues (3)
12.507 International Human Resource Management (3)
19.311 International Economics /S (3)
- four courses in one of the following supporting fields:

Supporting Field of Accounting

14.340 Intermediate Accounting I (3)
14.341 Intermediate Accounting II (3)
14.345 Cost Accounting (3)
and one other accounting course selected with the approval of the academic adviser.

Supporting Field of Business Management Information Systems

10.354 Business Applications of Computers /N (3)
10.454 Managing Information for Business Decision Making (3)
55.455 Introduction to Systems Analysis (3)
and one other business management information course selected with the approval of the academic adviser.

Supporting Field of Finance

13.464 Financial Markets and Institutions (3)
13.468 Financial Decision Making (3)
13.469 Investment Analysis (3)
13.474 Real Estate Finance and Economics (3)

Supporting Field of Human Resource Management

10.381 Principles of Human Resource Management (3)
10.382 Employee Participation in Decision Making (3)
10.383 Topics in Human Resource Management (3)
and one other Human Resource Management course selected with the approval of the academic adviser.

Supporting Field of Marketing

11.301 Consumer Behavior (3)
11.401 Marketing Research (3)
11.402 Marketing Problems (3)
42.300 Business and Economic Statistics (3)

- Six credit hours of a foreign language (in place of two elective courses), or competency examination.

Note: A student wishing to pursue a double major in International Business and another business field must complete six International Business courses and the required courses in the second field.

Marketing (six required courses)

- 11.301 Consumer Behavior (3)
- 11.401 Marketing Research (3)
- 11.402 Marketing Problems (3)
- Three courses from the following:
11.411 Promotion Management (3)
11.412 Advertising Campaigns (3)
11.421 Sales Management (3)
11.436 Retailing Management (3) and other courses approved by the department.
12.301 International Marketing (3)
42.300 Business and Economic Statistics (3)
in place of one liberal arts elective.

Real Estate and Urban Development (six required courses)

- 13.370 Urban Development /S (3)
- 13.373 Real Estate Principles and Transactions (3)

- 13.464 Financial Markets and Institutions (3)
- 13.474 Real Estate Finance and Economics (3)
- 13.476 Real Estate Investment Strategy (3)
- 13.478 Basic Real Estate Law (3)

or an approved elective

Students are encouraged to participate in cooperative education programs.

Student Status

The Kogod College of Business Administration has two undergraduate classifications: lower-division (corresponding to the freshman and sophomore years), and upper-division (corresponding to the junior and senior years). In the lower-division, students complete university requirements in college writing and mathematics, the university General Education program, nonbusiness prerequisites to the upper-division courses (economics, statistics, and computer science), and required courses Principles of Accounting and Business Law. (A student must earn a minimum of twenty-four credits before registering for lower-division courses in accounting and business law.)

The upper-division is devoted primarily to the completion of the professional courses in business. To qualify for admission to the upper-division, students must successfully complete a minimum of fifty-four credits of course work, including all of the lower-division degree requirements in college writing, mathematics, economics, statistics, computer science, business law, and accounting. No upper-level professional courses may be taken before attainment of upper-division status. Exceptions may be approved by the associate dean for undergraduate programs.

Graduation Requirements

Students must complete 120 credit hours with a cumulative grade-point average of 2.00 or better. A grade of C or better must be achieved in each of the Kogod College major courses. Also a grade of C or better must be achieved in each of the eleven business core courses (courses with the prefix 10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx), including capstone course 10.458 and any business prerequisite course or courses relevant to the specific major field. Pass/fail grades are not permitted in the major or in the business core courses.

Cooperative Education Program

Qualified students majoring in Business are encouraged to participate in the Cooperative Education Program which provides field experience in jobs related to their academic programs and career goals. The program enables students to make career decisions and prepare for entry into the professional job market while earning degree credit in part-time placements. Positions may be with business, local, state, or federal governments or community, social service, or not-for-profit organizations.

Undergraduate students must have upper division standing plus nine credit hours in business, including any relevant core courses specified by the Kogod College department. The credit earned in a Coop course can be used only for a free elective course, not to replace a major or core course.

University Honors Program

The college's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the major will, upon the college's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Business Administration

Designed to provide a minimum coverage of the common body of knowledge in business administration for nonbusiness majors.

Minor Requirements

- A total of twenty-four credit hours

Course Requirements

Please note that 19.100 Macroeconomics and 19.200 Microeconomics are prerequisites to 11.300 Principles of Marketing, and that 42.202 Basic Statistics is a prerequisite to 13.365 Corporate Finance. These courses must be successfully completed before starting the Minor in Business Administration.

- 10.353 Principles of Organizational Theory, Behavior and Management (3)
- 10.452 Business Responsibility in American Society (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.365 Corporate Finance (3)
- 14.201 Business Law (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)

While not required, the following additional course or its equivalent is highly recommended:

- 40.260 Introduction to Computing /N (4)

Master of Business Administration (M.B.A.)

The goal of the M.B.A. program is to develop practical business managers who can succeed in the complex, technical arena of world-wide business today and in the future.

The M.B.A. program contains within its required curriculums the business "common body of knowledge" required by the American Assembly of Collegiate Schools of Business. The M.B.A. is a broad, general management program with an emphasis in one particular field, while the two M.S. programs offered by the college provide specialized concentrations in accounting and taxation. The emphasis in both degrees is on a quality educational experience.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point average for the last sixty hours of academic work from a Council on Postsecondary Accreditation (COPA) regionally accredited institution.

Applicants whose first language is not English may be required to pass a special English test before they are permitted to register for Kogod College courses. Students who are not native English speakers must also be certified by the English Language Institute.

Areas of Concentration

Students select one of the following areas of concentration: Accounting, Business Management Information Systems, Finance, Human Resource Management, International Business, Marketing, or Real Estate and Urban Development

Degree and Concentration Requirements

Students admitted to Kogod College graduate-degree programs are expected to have adequate mathematics (calculus) competency to successfully complete their graduate business programs. Students with inadequate mathematics preparation are required to attend a noncredit mathematics workshop before the completion of twelve credit hours of graduate study. Students are informed of this requirement at the time of admission based on an evaluation of their prior education. There is a fee for the workshop, payable at the time of registration through the Office of Graduate Programs.

- A total of 60 credit hours of approved graduate work including eleven Business Common Body of Knowledge (CBK) courses, five Breadth Courses and four Area of Concentration courses.
- Research requirement: Students must earn a grade of B or better in two courses specified from the total credit-hour requirement as a nonthesis option. These two courses must be taken in residence. Strategic Management (10.755) is required of all M.B.A. students as one of the two nonthesis-option courses. The other required course is identified by an asterisk (*) within each M.B.A. area of concentration.

Course Requirements

Business Common Body of Knowledge Courses (eleven courses)

The CBK courses, except 10.755 Strategic Management, must be completed before the student enrolls in Breadth or Concentration courses. All of the CBK required courses except 10.755 Strategic Management may be waived by evidence of a satisfactory undergraduate business record at a COPA regionally accredited institution. CBK courses that are not waived must be taken at the graduate level at the Kogod College of Business Adminis-

tration, in addition to the Breadth and Concentration courses. CBK courses cannot be utilized to satisfy either Breadth, Concentration or Elective requirements.

- 10.604 Business and Society (3)
- 10.606 Managerial Statistics (3)
- 10.608 Production and Operations Management (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.611 Managerial Economics (3)
- 10.655 Management Information Systems (3)
- 10.755 Strategic Management (3) (must be taken in the student's last semester of course work)
- 11.601 Marketing Management (3)
- 12.600 Manager in the International Economy (3)
- 13.605 Financial Management (3)
- 14.603 Accounting Concepts and Applications (3)

Breadth Courses (five courses)

Breadth courses are designed to offer the student the opportunity to expand his or her horizons beyond the specialized area of concentration. Two of the breadth courses are required. The three remaining breadth courses must be selected from three different areas of business concentration outside the student's selected field of concentration. They are to be chosen on the basis of consultation with the student's faculty adviser.

Required Courses (two courses)

- 10.612 Business Economics (3)
- 14.648 Legal Concepts of Business Organizations (3) (International Business students have the option of taking 12.605 in lieu of 14.648)

Elective Courses (three courses)

- Three business courses (within the Kogod College of Business Administration) outside the area of concentration selected from three different fields (non-CBK courses)

Area of Concentration (four courses)

Accounting

The accounting area of concentration varies from a minimum of four to a maximum of six graduate accounting courses beyond the MBA Core (14.603) depending upon the prior accounting education of students. For students without adequate prior education, the area of concentration will consist of the following six courses:

- 14.604 Federal Income Taxation (3)
- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II (3)*
- 14.645 Managerial Cost Accounting (3)
- 14.649 Auditing Theory and Practice (3)
- 14.650 Accounting Information Systems (3)

Each of the above courses may be waived based upon appropriate prior education. However, only two courses may be waived without replacement by another graduate accounting or taxation course approved by the Department Chair.

Business Management Information Systems

- 10.657 Business Applications of Database Management Systems (3)
- 10.658 Managing Information as a Corporate Resource (3)
- 10.659 Applications of Business Decision Support Systems (3)
- 10.660 Business Applications Development Practicum (3)*

Finance

- 13.650 Advanced Financial Management
- 13.765 Seminar in Finance (3)*
- Two more graduate Finance courses with approval of the faculty advisor (excluding the CBK)

Human Resource Management

- 10.671 Issues in Human Resource Management (3)
- 10.684 Seminar in Performance Appraisal (3)*
- Two courses, approved by adviser, from the following:
10.585 Equal Employment Opportunity (3)
10.681 Wage and Salary Administration (3)
10.682 Seminar in Pensions and Benefits (3)
10.686 Management-Union Relations (3)
10.694 Training and Development Seminar (3)
10.695 Legal Environment of Human Resource Management (3)
10.792 Seminar in Industrial Relations Administration (3)
10.795 Seminar in Human Resource Planning (3)

International Business

The M.B.A. area of concentration in International Business is composed of the following three tracks: International Finance, International Marketing, and International Management.

Track I: International Finance

- 12.602 International Finance (3)
- 12.701 Seminar in International Business (3)*
- Two of the following six courses:
12.606 International Banking (3)
12.692 Cooperative Education Field Experience (3)
13.571 Financial Futures and Options (3)
13.650 Advanced Financial Management (3)
13.655 Securities Analysis (3)
13.656 Portfolio Theory and Management (3)

Track II: International Marketing

- 12.601 International Marketing (3)
- 12.701 Seminar in International Business (3)*
- Two of the following four courses:

- 11.602 Consumer Behavior (3)
- 11.604 Marketing Research (3)
- 11.607 Strategic Marketing (3)
- 12.692 Cooperative Education Field Experience (3)

Track III: International Management

- 12.603 Comparative Management Systems (3)
- 12.701 Seminar in International Business (3)*
- Two of the following courses:
12.507 International Human Resource Management (3)
Any other management elective beyond CBK or
12.692 Cooperative Education Field Experience (3)

Marketing

- 11.604 Marketing Research (3)
- 11.607 Strategic Marketing (3)*
- Two courses from the following:
11.602 Consumer Behavior (3)
11.603 Industrial and Government Markets (3)
11.605 Promotion Management (3)
11.606 Marketing and Public Policy (3)
12.601 International Marketing (3)

Real Estate and Urban Development

- 13.679 Real Estate and Land Economics (3)
- 13.683 Real Estate Analysis (3)
- 13.684 Real Estate Finance and Mortgage Markets (3)
- 13.776 Seminar in Real Estate and Urban Development (3)*

Special Opportunities

Students who are graduates of an AACSB accredited business school with an upper-level (last sixty hours) grade point average of 3.00 or better and a GMAT score of 500 or better may be admitted directly to the thirty-three credit M.B.A. program. Students admitted to this program are required to take 10.755 Strategic Management, five Breadth courses, four Area of Concentration courses, and a graduate Elective course approved by a faculty advisor.

The M.B.A. degree may be obtained by attending evening classes part time. Cooperative Education experiences may be available for three areas of concentration credits. A prerequisite for all graduate Coops is completion of the business common body of knowledge. The curriculum is designed to accommodate students with or without an undergraduate business degree.

Transfer Policy

Students may transfer up to six credit hours of graduate-level business courses to be applied to the breadth area in MBA program, if earned with grades of B or better at an AACSB-accredited business school within five years before admission. Graduate courses may not be transferred to fulfill the requirements of CBK courses.

Waiver Policy

Normally, students may waive up to twenty-seven credit hours of CBK courses based on the completion of the equivalent undergraduate or graduate courses with grades of B or better at a COPA regionally accredited institution. The waivable courses are: 10.606, 10.608, 10.610, 10.611, 11.601, 14.603, 10.655, 12.600, 13.605, and 10.604. (Strategic Management, 10.755, is a capstone course which is not waivable and must be completed at The American University during the student's final semester.) If a student receives waiver credit for all of the waivable core courses, the student must take one additional breadth course. A minimum of thirty-three credit hours must be taken in residence for this sixty-credit-hour M.B.A. program.

Master of Science Degrees

The Kogod College offers two Master of Science degrees which are designed to meet the special educational requirements of the accounting profession. The M.S. in Accounting program provides graduates with the technical knowledge essential for successful completion of the Certified Public Accountant Examination and for assumption of positions of growing responsibility in accounting practice. The M.S. in Taxation program is designed to provide CPAs and other qualified students with in-depth preparation for professional careers as tax practitioners. In addition to the accounting and taxation specializations, both M.S. programs assure that graduates have mastered the breadth of knowledge in business administration and management essential for decisive action in professional practice. Both M.S. degrees may be obtained by attending evening classes part-time.

M.S. in Accounting

Admission to the Program

Requirements for admission to the program are the same as those for the M.B.A. degree. In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point average for the last sixty hours of academic work from a Council on Postsecondary Accreditation (COPA) regionally accredited institution. Prior education in business or accounting is not necessary. M.S. in Accounting students are subject to the same mathematics competency requirements as M.B.A. students.

Degree Requirements

Degree requirements vary from a minimum of ten graduate courses to a maximum of twenty courses depending on an evaluation of each student's educational background. The complete M.S. in Accounting curriculum consists of sixty credit hours of approved graduate work including ten Business Common Body of Knowledge (CBK) courses and ten courses in the Accounting specialization.

A minimum of thirty credit hours must be taken in residence.

Business Common Body of Knowledge (CBK) (ten courses)

- 10.606 Managerial Statistics (3)
- 10.608 Production and Operations Management (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.611 Managerial Economics (3)
- 10.655 Management Information Systems (3)
- 10.755 Strategic Management (3)
- 11.601 Marketing Management (3)
- 13.605 Financial Management (3)
- 14.602 Legal Environment of Professional Accounting (3)
- 14.603 Accounting Concepts and Applications (3)

Accounting Specialization (ten courses)

- 14.547 Advanced Financial Accounting (3)
- 14.604 Federal Income Taxation (3)
- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II (3)*
- 14.645 Managerial Cost Accounting (3)
- 14.649 Auditing Theory and Practice (3)
- 14.650 Accounting Information Systems (3)
- 14.780 Seminar in Accounting Theory (3)*
- Two accounting or taxation electives

The electives must be selected with approval of the department chair from the following alternatives:

- 14.660 Governmental, Not-for-Profit, and Fiduciary Accounting (3)
- 14.670 Accounting for Multinational Operations (3)
- 14.739 Managerial Accounting and Business Policy (3)

approved graduate taxation courses

M.S. in Taxation

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have earned an undergraduate bachelor's degree in business administration from a COPA regionally accredited institution with a satisfactory grade point average for the last sixty credit hours and a satisfactory score on the Graduate Management Admission Test (GMAT).

The applicant must demonstrate satisfactory completion of course work equivalent to the Common Body of Knowledge for undergraduate business education as currently defined by the American Assembly of Collegiate Schools of Business (AACSB). In addition, the applicant must have completed two semesters of intermediate accounting, one semester of business law, and one semester of federal income taxation. Any deficiencies in the above prerequisite courses must be completed at the graduate level at The American University after admission to the

program, and are in addition to other program requirements.

Degree Requirements

The M.S. in Taxation requires ten graduate tax courses (thirty credit hours), including two required core tax courses (six hours), a research component (six hours), and six elective tax courses (eighteen hours). At least one of the elective courses must be chosen from the 600-level electives.

Master of Science in Taxation students are subject to the same mathematics competency requirements as the MBA students.

Core Tax Courses (two courses)

- 14.630 Legislative and Judicial Foundations of Income Tax (3)
- 14.631 Tax Research and Procedure (3)

Research Component (six credit hours)

There are three options to satisfy the research component. The first two alternatives require a written thesis and the third option requires two research-oriented courses in lieu of a thesis.

Option 1

- 14.797 Master's Thesis Seminar (6)

Option 2

- 14.750 Tax Policy (3)
14.797 Master's Thesis Seminar (3)

Option 3 Nonthesis Option

- 14.750 Tax Policy (3)
14.751 Seminar in Business Tax Planning (3)
or
14.752 Seminar in Family Financial Planning (3)

The thesis and all research component courses must be completed with a grade of B or better.

Elective Courses (six courses)

- Six courses chosen from the following:
14.632 Estate and Gift Tax (3)

- 14.633 Corporation Income Taxation I (3)
- 14.740 Corporation Income Taxation II (3)
- 14.741 State and Local Taxation (3)
- 14.742 Special Tax Topics (3)
- 14.743 International Taxation (3)
- 14.744 Advanced Topics in Tax Accounting and Procedures (3)
- 14.745 Employee Benefit Tax Planning (3)
- 14.746 Taxation of Real Estate Transactions (3)
- 14.747 Partnership Taxation (3)
- 14.751 Seminar in Business Tax Planning (3)
(if not taken in satisfaction of the non-thesis option research component)
- 14.752 Seminar in Family Financial Planning (3)
(if not taken in satisfaction of the non-thesis option research component)

J.D./M.B.A. Joint Program

A joint J.D./M.B.A. program is offered by the Kogod College of Business Administration and the Washington College of Law.

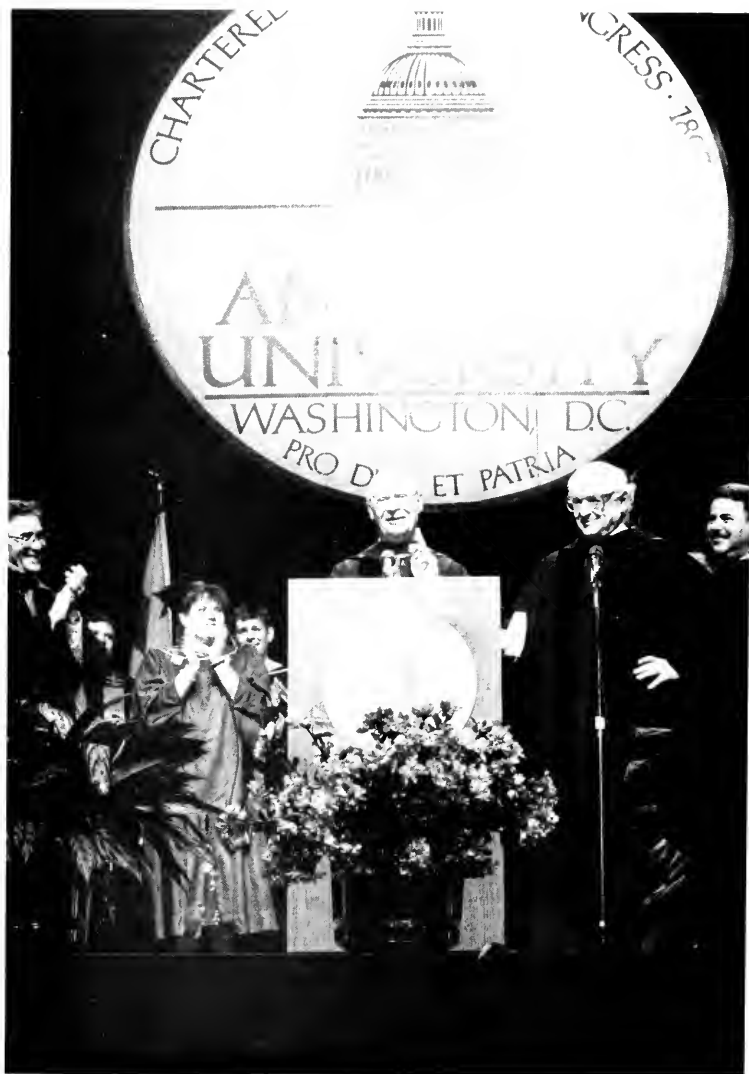
Admission to the Program

Each applicant must satisfy the admission requirements of both Kogod College and Washington College of Law before being admitted to the program.

Degree Requirements

Requirements for the M.B.A. degree vary from a maximum of sixty credit hours to a minimum of thirty-three credit hours depending upon the student's prior education. Students may waive up to nine CBK courses based on appropriate undergraduate business course work. Kogod College may also give credit toward the M.B.A. degree for up to a maximum of six credit hours for concentration courses or seminars taken at the Washington College of Law (WCL), provided they are appropriate and approved by the Joint Washington College of Law-Kogod College Committee.

For the J.D. degree, students must complete eighty-six credit hours. The Washington College of Law may give credit toward the J.D. degree up to a maximum of six credit hours for courses or seminars taken at Kogod College, provided they are appropriate and approved by the Joint Committee.



Alexander Dubček, President of the Federal Assembly of the Czech and Slovak Federal Republic, receiving an honorary degree at Spring 1990 commencement

School of International Service

Dean Louis W. Goodman

Associate Dean for Academic Affairs Nanette S. Levinson

Associate Dean for Administrative Affairs Roger E. Legere

Interim Chair, Department of Comparative and Regional Studies L.D. Howell

Chair, Department of International Politics and Foreign Policy P.J. Brenner

Director, International Communication Program H. Mowlana

Director, International Development Program S.H. Arnold

Director, J.D./M.A. Program in Law and International Affairs T.J. Farer

Director, Ph.D. Program J.M. Richardson

Full-Time Faculty

Professor G.M. Bonham, D.L. Clarke, S.D. Cohen, W.C. Cromwell, T.J. Farer, J.J. Finan, R.H. Gabriel (University Emeritus), L.W. Goodman, R.W. Gregg, E.S. Griffith (University Emeritus), G.L. Harris (Emeritus), L.D. Howell, W.G. Hunsberger (Emeritus), M.D. Irish (Emerita), K.P. Landon (Emeritus), M.F. Lindsay (Emeritus), L.L. Lubrano, S. Mardin, A.D. Mott (Emeritus), H. Mowlana, W.C. Olson (Emeritus), N.G. Onuf, F.J. Piotrow, D.D. Randall (Emeritus), J.M. Richardson, A.A. Said, M. Struelens, A. Suhrke, A.R. Taylor, B.B. Tyson, A.L. Vilakazi (Emeritus), L.W. Wadsworth (Emeritus), M.P. Walker (Emeritus), G. Weaver, L.C. Wilson.

Associate Professor S.H. Arnold, P. Brenner, D. Hirschmann, W. Kincade, N.S. Levinson, S. Samarasinghe

Assistant Professor M. Alleyne, A. Aquilar, C. Brasher, R. Broad, K. Burch, F. Cheru, M. Ensign, S. Gallup, M. Hammer, S. Hoagland, H. Huo, H. Kim, C. Lankowski, Y. Lukacs, C. Malsch, R. Marlin-Bennett, J. Macartney, R. Moore, L. Schwartz, S. Silvia, M. Tamamoto, P. Wapner, N. Wessell

Visiting Professor L. Lomnitz, A. Rachwald

Diplomat in Residence C. Maksoud

Research Faculty

Assistant Research Professor J. Mendelson

Visiting Scholars G. Leitman, P. Sollis

The School of International Service (SIS) offers professional training in international affairs. The programs are based on an interdisciplinary curriculum oriented towards the liberal arts that encourages students to explore foreign affairs through the contributions of political scientists, sociologists, anthropologists, economists, attorneys, historians, and specialists in communication.

The school offers exceptional opportunities for undergraduate and graduate studies. These opportunities evolve from the location of the university in a world capital and from the rich human and documentary resources which enhance the school's educational programs.

At all times the link between the school and its Washington environment nourishes the academic growth of its students. Whatever their career objectives, students of the school participate in programs that are multidisciplinary, problem and policy oriented, and uniquely adapted to those opportunities inherent in the metropolitan Washington location.

The Faculty

The diversity of the fifty-one faculty members of the School of International Service in terms of academic disciplines and professional experience, both in the United States and abroad, exemplifies the multidisciplinary and cross-cultural essence of international relations. To supplement the regular faculty, the school takes advantage of

the extraordinary number of highly qualified experts assigned to positions in Washington. The school regularly appoints adjunct and visiting professors and benefits from their expertise in the field of international relations. As a center of public dialogue, the school brings leading experts from around the world to address emerging issues in international affairs.

Internships and Cooperative Education Opportunities in Washington D.C.

Only in Washington can the subject of international affairs be studied in such a relevant context. This location affords students opportunities for hands-on learning with academic credit through an increasing number of internships in government and nongovernment agencies with international interests. Internships are available with international organizations, congressional committees, lobbying groups, research organizations, and government offices of special professional interest to the SIS student. Cooperative education is an academic program that places students in preprofessional jobs for which they earn degree credit. Students who participate in the cooperative education experience are often offered permanent employment as a result of their co-op assignments.

Career and Professional Opportunities

The school has had great success preparing students for international service. Graduates have established flourishing careers in fields including foreign service, economic development, intelligence gathering and assessments, disaster relief, policy analysis, congressional affairs, and technology transfer. Graduates accept positions in Washington and elsewhere with agencies concerned with health, food resources, population, security, arms control, diplomacy, and international trade and banking. SIS alumni also serve in the international branches of organizations involved in law, agriculture, science, religion, culture, printing and publishing, journalism, management, accounting, and higher education. The wide range of government activities, including the Foreign Service, the Armed Forces, and Congress in Washington, D.C., creates unique opportunities for career development.

Honor Society

The International Relations Honor Society, Alpha Chapter of Sigma Iota Rho, was founded at The American University on April 12, 1984. Sigma Iota Rho is an interdisciplinary scholarly recognition society founded for undergraduates whose course of study concentrates on international relations.

Undergraduate Study

Students may select either the B.A. in International Studies or the B.A. in Language and Area Studies. The B.A. in International Studies begins with foundation courses in world politics, western traditions, nonwestern area studies, U.S. politics, and economics. Then students take core courses in U.S. foreign policy, international communication, international development, international economic policy, and research methods. While building this foundation, students also complete the school's modern foreign language requirement.

Building on the foundation and core courses, students select an area specialization (Africa, the Americas, Asia, Europe, Middle East, or the Soviet Union) and a functional field of concentration (International Politics, U.S. Foreign Policy, International Communication, International Development, International Economics/Economic Policy, or Peace and Conflict Studies). The program capstone is the integrative Senior Seminar.

The B.A. in Language and Area Studies offers a choice of the following area studies concentrations: French/West Europe, German/West Europe, Spanish/Latin America, Russian/USSR. This degree program provides a foundation in language and culture courses complemented by a special program of area-related social-science courses.

There also is a variety of course offerings with an international focus offered by other teaching units including anthropology, business, communication, economics, education, government, history, language, philosophy, and sociology that complement the school's degree programs.

Study Abroad

Study abroad is encouraged and students frequently take advantage of the opportunity to learn in another culture. The university officially sponsors programs in London, Paris, Rome, Madrid, Brussels, Bonn, Vienna, Copenhagen, Poland, Mexico City, Buenos Aires, and Beijing. Participation in programs of study sponsored by other accredited U.S. collegiate institutions is allowed. Such academic credit is readily transferable to The American University. Tours to other nations led by faculty members are occasionally offered during the academic year, during semester breaks, and in the summer.

Graduate Study

The School of International Service offers an M.A. in International Affairs, an M.A. in International Communication, an M.A. in International Development, an M.S. in Development Management, a combined J.D./M.A. in Law and International Affairs, and a Ph.D. in International Relations. The school's graduate programs are grounded in the social sciences and reflect a strong commitment by the school's faculty to teaching and research.

Unique Educational Resources

The American University offers qualified undergraduate and graduate students the opportunity to enroll in courses at any of the institutions in the Consortium of the Universities of the Washington Metropolitan Area. By taking advantage of consortium offerings, students may greatly enrich their programs, particularly in specialized interest areas and language study.

Washington offers unique research facilities including the Library of Congress, the National Archives, and various other libraries maintained by government agencies, public and private international organizations associations, and other area universities.

The university operates the Social Science Computer Laboratory, which provides students access to commonly used mainframe and microcomputer applications. As a member of the Inter-University Consortium for Political and Social Research (ICPSR), The American University possesses over one hundred data sets and has ready ac-

cess to hundreds of others. In addition, as a member of the consortium students are eligible for direct borrowing privileges from any of the consortium university libraries.

Departments and Programs

The School of International Service includes two departments and two programs: the Department of Comparative and Regional Studies, the Department of International Politics and Foreign Policy, the International Communication Program and the International Development Program.

The Department of Comparative and Regional Studies provides unique opportunities for the study of the major regions of the world: Africa, the Americas, Asia, Europe, the Middle East, and the Soviet Union. The CRS curriculum builds upon the in-depth coverage of these regions by stressing that issues are best understood in comparative perspective.

The Department of International Politics and Foreign Policy includes the subfields of international law and organization, international political economy, peace and conflict resolution, defense and foreign policy, and international economic policy. Students ground their work in appropriate theory and economics courses.

The International Communication Program, designated by the university as a Center of Excellence, is the oldest such degree program in the United States. It focuses on international communication policy and technology as well as cross-cultural communication.

The International Development Program is known for its diverse programs focusing on the study of economic, social and political development in the third world. Its emphases include grass-roots development, national-level development, and development education in the United States.

B.A. in International Studies

Admission to the Undergraduate Program

Candidates for admission to the school must present evidence of excellent personal and academic qualifications. To be considered for freshman admission, an applicant should have earned at least a B average in secondary school. Cultural factors are considered in evaluating transcript and examination results. Other factors taken into account are leadership qualities, character, and personal interest. Students from other regionally accredited collegiate institutions, and students in other programs at The American University who have completed the freshman year, should maintain a cumulative grade point average of B to be considered for transfer to the school.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

A total of seventy-nine to eighty-two credit hours with grades of C or better. Up to eighteen of these credit hours may also count toward fulfillment of General Education Requirements.

Foundation Courses (twenty-four credit hours)

- 33.202 World Politics /S (three credit hours)
- Two courses focusing on Western traditions (six credit hours) from the following list:
07.100 European Art: From Cave to Cathedral /A 2:1
07.205 Art of the Renaissance /A 2:2
23.255 Political Revolutions and Literary Continuity 1660-1798 /A 2:2
23.265 Literature and Society in Victorian England /A 2:2
29.110 Renaissance and Revolutions: Europe, 1400-1815 /A 2:1
29.111 Nationalism and Industrialization: Europe since 1815 /A, S
29.200 Italian Civilization /A 2:2 (study abroad)
29.202 The Ancient World: Greece
29.203 The Ancient World: Rome
29.204 Medieval Europe
29.205 America's Quest for the Good Society 1607-1865 /A 2:2
29.215 Social Forces that Shaped America /S 2:2
29.235 The West in Crisis: 1900-1945 /S 2:2
33.151 Western Tradition I
33.152 Western Tradition II
33.200 Liberalism and Its Critics /S 2:2
53.105 Individual Freedom vs. Authority /A 2:1
53.200 Modern Political Thought
53.301 Classical Political Thought
60.105 Western Philosophy /A 2:1
60.210 European Philosophy and the American Experiment /S 2:2
60.220 Moral Philosophy /A 2:2
60.221 Philosophy, Politics, and Society /A, S
60.300 Ancient and Medieval Philosophy /A
60.301 Modern Philosophy from Bacon to Hegel /A
60.302 Nineteenth Century Philosophy
60.303 Twentieth Century Philosophy
61.105 The Religious Heritage of the West /A 2:1
65.215 The Rise of Critical Social Thought /S 2:2
73.110 Western Legal Traditions
73.225 American Legal Culture
76.150 Women's Voices through Time /A 2:1
- Two courses in non-Western area studies (six credit hours). Select one course from each of two different areas listed below.

Africa

- 23.150 Third World Literature /A 3:1
- 33.250 Civilizations of Africa /A 3:2
- 33.265 Contemporary Africa /S
- 61.210 Asian and African Religious Traditions /A 3:2
- 61.230 Traditional African Thought /A

The Americas

- 29.241 Colonial Latin America
- 29.242 Latin America since Independence
- 33.276 Contemporary Latin America
- 37.210 Latin America: History, Art, Literature /A 3:2
- 65.230 Conflict and Change in Latin America /S 3:2

Asia

- 29.250 Civilization and Modernization: Asia /S 3:2
- 33.161 Civilizations of Asia
- 33.255 Japan and United States /A 3:2
- 61.185 Forms of the Sacred: Religions of the East /A 3:1
- 61.210 Asian and African Religious Traditions /A 3:2

Middle East

- 33.245 The World of Islam
- 33.264 Contemporary Middle East /S
- 61.370 Islam
- 65.225 Contemporary Arab World /S 3:2

Soviet Union

- 29.225 Russia: Past and Present /A 3:2
- 29.230 Early Russian History, 988-1700
- 29.231 Imperial Russia, 1700-1917
- 29.232 Soviet Union, 1917 to Present
- 33.258 Contemporary Russia /S
- One course in U.S. politics (three credit hours) from the following:
 - 53.110 The Individual and the Polity /S 4:1
 - 53.120 Introduction to American Politics /S or
- Two courses in economics (six credit hours):
 - 19.100 Macroeconomics /S 4:1 (3)
 - 19.200 Microeconomics /S 4:2 (3)

Core Field Courses (twelve credit hours)

International Communication (three credit hours)

- One course from the following:
 - 33.140 Cross-Cultural Communication /S 3:1
 - 33.340 Foundations of International Communication
 - 33.341 Intercultural Communication
 - 33.349 Selected Topics in International Communication

International Development (three credit hours)

- One course from the following:
 - 19.110 The Global Majority /S 3:1
 - 19.307 Political Economy of Economic Development
 - 19.308 History of Economic Development
 - 21.205 Education for International Development /S 3:2
 - 23.150 Third World Literature /A 3:1
 - 29.120 Imperialism and Revolution /S 3:1
 - 33.110 Beyond Sovereignty /S 3:1

- 33.230 International Development /S 3:2
- 53.235 Dynamics of Political Change /S 3:2
- 65.110 Views from the Third World /S 3:1
- 65.230 Conflict and Change in Latin America /S 3:2

International Economics/International Economic Policy (three credit hours)

- One course from the following:
 - 19.311 International Economics /S
 - 33.215 Competition in an Interdependent World /S 3:2
 - 33.385 United States Foreign Economic Policy /S

U.S. Foreign Policy (three credit hours)

- One course from the following:
 - 33.382 The Analysis of U.S. Foreign Policy
 - 33.384 American Defense and Security Policy
 - 33.385 U.S. Foreign Economic Policy /S

Research Methods (six to seven credit hours)

- Two courses in Research Methods (six credit hours):
 - 33.206 Introduction to International Relations Research
- and
- One course from the following:
 - 33.307 Quantitative Approaches to International Politics (Prerequisite: 33.206 or 42.202 or equivalent)
 - 42.202 Basic Statistics /N
 - 53.310 Introduction to Political Research
 - 55.210 Introduction to Computer Information Systems
 - 65.422 Survey Research Methods
 - 65.423 Social Policy Research

Foreign Language (ten to twelve credit hours)

- Ten to twelve credit hours of one modern foreign language or intermediate level of competence

Area Specialization (twelve credit hours)

Four courses in one of the following regional areas: Africa, The Americas, Asia, Europe, the Middle East, and the Soviet Union.

A minimum of two courses (six credit hours) must be taken in SIS and a minimum of three courses (nine credit hours) must be taken at the 300 level or above. Three credit hours may also be used to satisfy General Education or Foundation/Core Requirements. Select courses from the lists below:

Africa

- 03.339 Culture Area Analysis /S (depending on focus)
- 23.150 Third World Literature /A 3:1
- 33.250 Civilizations of Africa /A 3:2
- 33.265 Contemporary Africa /S
- 33.573 International Relations of Africa I
- 33.574 International Relations of Africa II
- 61.210 Asian and African Religious Traditions /A 3:2
- 61.230 Traditional African Thought /A

The Americas

- 03.339 Culture Area Analysis /S (depending on focus)
- 29.241 Colonial Latin America
- 29.242 Latin America since Independence
- 29.340 Latin American Studies (topics variable)
- 33.276 Contemporary Latin America
- 33.374 Buenos Aires Seminar /S 3:2 (study abroad)
- 33.577 International Relations of Latin America I
- 33.578 International Relations of Latin America II
- 37.210 Latin America: History, Art, Literature /A 3:2
- 37.350 Introduction to Hispanic Culture
- 37.357 Introduction to Spanish Literature
- 65.230 Conflict and Change in Latin America /S 3:2

Asia

- 03.339 Culture Area Analysis /S (depending on focus)
- 29.250 Civilization and Modernization: Asia /S 3:2
- 29.347 Asian Studies (topics variable)
- 33.161 Civilizations of Asia
- 33.255 Japan and United States /A 3:2
- 33.366 Asian Power Rivalries
- 33.559 Selected Topics in Cross-National Studies
- 33.561 Modern China
- 33.562 Modern Japan
- 33.567 International Relations of East Asia I
- 33.568 International Relations of East Asia II
- 33.569 International Relations of Southeast Asia
- 61.185 Forms of the Sacred: Religions of the East /A 3:1
- 61.210 Asian and African Religious Traditions /A 3:2
- 61.373 Hinduism

Europe

- 29.110 Renaissance and Revolution: Europe, 1400-1815 /A 2:1
- 29.111 Nationalism and Industrialization: Europe since 1815 /A, S
- 29.200 Italian Civilization /A 2:2 (study abroad)
- 29.201 The Italian Renaissance
- 29.204 Medieval Europe
- 29.221 History of England I
- 29.222 History of England II
- 29.238 France since Napoleon
- 29.239 Modern Germany since 1848
- 33.259 Comparative Change in East Europe
- 29.317 Weimar Germany
- 29.318 Nazi Germany
- 29.320 War and Diplomacy: Napoleon to World War I
- 29.326 European Society in the Nineteenth and Twentieth Centuries
- 29.327 Twentieth Century Europe
- 29.333 Tudor-Stuart England
- 29.334 Victorian England
- 29.335 Twentieth Century England
- 29.336 History of Ireland
- 29.337 British Studies (topics variable)
- 33.331 An Overview of the European Community
- 33.355 The Relations of Western European Nations
- 33.372 Brussels Seminar /S 3:2 (study abroad)
- 33.373 Madrid Seminar
- 33.375 Vienna Seminar

- 33.530 Colloquium on the Common Market
- 33.533 Seminar on the European Community's Current Programs
- 33.551 Politics and Society in Western Europe since 1945
- 33.557 Foreign Policy Formulation in West European States
- 37.326 French Topics (topics variable)
- 37.336 German Topics
- 37.428 French Civilization I
- 37.429 French Civilization II
- 37.438 German Civilization I
- 37.439 German Civilization II
- 53.434 London Semester (study abroad)

Middle East

- 33.245 The World of Islam
- 33.264 Contemporary Middle East /S
- 33.364 Modern Islam
- 33.571 International Relations of the Middle East I
- 33.572 International Relations of the Middle East II
- 61.370 Islam
- 65.225 Contemporary Arab World /S 3:2

Soviet Union

- 29.225 Russia: Past and Present /A 3:2
- 29.230 Early Russian History, 988-1700
- 29.231 Imperial Russia, 1700-1917
- 29.232 Soviet Union, 1917 to Present
- 29.345 Russian Studies (topics variable)
- 33.258 Contemporary Russia /S
- 33.359 Soviet Union in World Affairs
- 33.558 Soviet Political System
- 37.200 The Soviet Union and the United States /S 3:2

Functional Field of Concentration (twelve credit hours)

Four courses in one of the following functional fields: International Communication, International Development, International Economics/International Economic Policy, International Politics, Peace and Conflict Studies, and United States Foreign Policy

A minimum of two courses (six credit hours) must be taken in SIS and a minimum of three courses must be taken at the 300 level or above. Three credit hours may also be used to satisfy General Education or Foundation/Core Requirements.

- Select courses from the lists below:

International Communication

- 33.140 Cross-Cultural Communication /S 3:1
- 33.340 Foundations of International Communication
- 33.341 Intercultural Communication
- 33.349 Selected Topics in International Communication:
Information and Culture in Foreign Policy
News Media and Foreign Policy

International Development

- 19.110 The Global Majority /S 3:1
- 19.307 Political Economy of Economic Development
- 19.308 History of Economic Development

- 21.205 Education for International Development /S 3:2
- 23.150 Third World Literature /A 3:1
- 29.120 Imperialism and Revolution /S 3:1
- 33.110 Beyond Sovereignty /S 3:1
- 33.230 International Development /S 3:2
- 33.534 World Human Needs and International Planning
- 33.536 Special Topics in International Development
- 33.537 Special Topics in Development Management
- 53.235 Dynamics of Political Change /S 3:2
- 65.110 Views from the Third World /S 3:1

International Economics/International Economic Policy

- 19.311 International Economics /S
- 19.371 International Economics: Trade
- 19.372 International Economics: Finance
- 33.215 Competition in an Interdependent World /S 3:2
- 33.389 Special Topics in Policy Analysis
- 33.465 Contemporary International Trade and Investment Policies
- 33.466 Contemporary United States Foreign Economic Policy: Finance, Energy, and Development
- 33.504 Multinational Corporations

International Politics

- 29.120 Imperialism and Revolution /S 3:1
- 29.260 To Arms: People and Nations at War /S 3:2
- 29.320 War and Diplomacy: Napoleon to World War I
- 29.321 War and Peace, 1914-1945
- 29.361 World War II: The Global Experience
- 29.363 Other Wars: Cold, Korean, and Vietnam
- 33.110 Beyond Sovereignty /S 3:1
- 33.120 Between Peace and War /S 3:1
- 33.215 Competition in an Interdependent World /S 3:2
- 33.301 Theories of International Politics
- 33.321 International Law
- 33.325 International Organization
- 33.355 Relations of Western European Nations
- 33.366 Asian Power Rivalries
- 33.504 Multinational Corporations
- 33.518 Diplomacy of World War II
- 33.519 Special Studies in International Politics

Peace and Conflict Studies

- 33.110 Beyond Sovereignty
- 33.120 Between Peace and War
- 33.308 Introduction to Peace and Conflict Resolution (required)
- 33.321 International Law
- 33.322 Human Rights
- 33.325 International Organization
- 33.328 Peace Paradigms (required)
- 61.333 Peace and Change: A Personal and Social Equation

U.S. Foreign Policy

- 29.362 World War II: The American Experience
- 29.363 Other Wars: Cold, Korean, Vietnam

- 29.364 Twentieth Century United States Response to Revolution
- 33.381 Foreign Policies of the Great Powers
- 33.382 Analysis of United States Foreign Policy
- 33.384 American Defense and Security Policy
- 33.385 United States Foreign Economic Policy /S
- 33.389 Special Topics in Policy Analysis
- 33.396 Selected Topics (Nonrecurring): Soviet-American Security Relations
Note: this is an experimental course and is not listed under "Courses of Instruction" in this catalog.
- 33.465 Contemporary International Trade and Investment Policies
- 33.466 Contemporary United States Foreign Economic Policy: Finance, Energy, and Development
- 33.581 Schools of Thought in Contemporary United States Foreign Policy
- 33.583 United States in World Affairs
- 33.588 International Security and Arms Control

Senior Seminar (three credit hours)

- 33.400 Senior Seminar in International Relations

Other Options

Students may, where appropriate and with SIS approval, select special topics courses to fulfill requirements.

Students may also apply up to three credit hours toward the major from an approved internship or cooperative education field experience.

Study abroad course credits may be used toward the major with the approval of SIS.

Special Opportunities

Cooperative education programs, internships (including a limited number of U.S. State Department internships), Pan Ethnon, Foreign Policy Semester, *Erroy*, *The Diplomatic Pouch*

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding school options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the school will, upon school recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Language and Area Studies

Students receive a B.A. in a language and area study from the College of Arts and Sciences or the School of International Service (SIS).

Admission to the Program

Freshmen and transfer students are admitted to the Department of Language and Foreign Studies in the College of Arts and Sciences or to the School of International Service. They must achieve a cumulative grade point average of 3.00 or better and determine their language and area before they are formally recognized as majors.

Majors

French/West European Area Studies, German/West European Area Studies, Russian/USSR Area Studies, Spanish/Latin American Area Studies

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better
Eighteen of the total credit hours in the language of the major at the 300 level or above
Twenty-four of the total credit hours in the area of specialization fulfilled according to requirements for the College of Arts and Sciences degree or the School of International Service degree

Course Requirements

French

- 37.324 French Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)

German

- 37.332 German Conversation and Composition I /A (3) (or substitute if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (or substitute if warranted by language proficiency)
- 37.438 German Civilization I (3)

- 37.439 German Civilization II (3)
- Additional six credit hours in German as advised

Spanish

- 37.354 Spanish Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)

Russian

- Courses chosen from regular Russian offerings in consultation with adviser

College of Arts and Sciences

- Twenty-four credit hours in area-related courses in anthropology, economics, government, history, international relations, language and foreign studies (beyond the eighteen credit hour requirement), literature, and interdisciplinary studies. Courses are chosen in consultation with the adviser.

School of International Service

- Twenty-four credit hours of course work specific to the major area of which at least six credit hours must be in SIS

Other course work may be taken in anthropology, economics, government, history, language and foreign studies (beyond the eighteen credit hour requirement), literature, interdisciplinary studies.

Note: SIS-degree candidates must include in their program a minimum of eighteen credit hours of SIS course work.

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding school options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the school will, upon school recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Foreign Policy Semester

Admission to the Program

Open to students from the Washington Semester member institutions as part of the Washington Semester program and to juniors and seniors in good standing at The American University. Recommended prerequisite for the Foreign Policy Semester program is at least one course in government or international relations and one in economics.

This program does not lead to a degree. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements

- 33.491 Washington Foreign Policy Seminar I (4)
- 33.492 Washington Foreign Policy Seminar II (4)
- 33.493 Washington Foreign Policy Research Project (4)
- 33.494 Washington Foreign Policy Internship (4) or a regular course from among the evening offerings at The American University

Special Opportunities

Internships, Pan Ethnon, *Envoys*, *The Diplomatic Pouch* and off-the-record seminars with foreign policy experts and career officials.

Peace and Conflict Resolution Semester

Admission to the Program

Open to students from the Washington Semester member institutions as part of the Washington Semester program and to juniors and seniors in good standing at The American University.

Course Requirements:

- 33.486 Peace and Conflict Resolution Seminar I (4)
- 33.487 Peace and Conflict Resolution Seminar II (4)
- 33.488 Peace and Conflict Resolution Research Project (4)
- 33.489 Peace and Conflict Resolution Internship (4)

A regular course from among the evening offerings at The American University may be substituted for either the research project or the internship.

Participation in this semester fulfills all requirements for a Peace and Conflict Studies concentration.

Minor in International Studies

Requirements

- 33.202 World Politics (three credit hours)
- One course (three credit hours) from the following:
 - 33.381 Foreign Policies of the Great Powers
 - 33.382 The Analysis of United States Foreign Policy
 - 33.384 American Defense and Security Policy
 - 33.385 United States Foreign Economic Policy
 - 33.389 Selected Topics in Policy Analysis
- One course (three credit hours) from the following:
 - 33.258 Contemporary Russia
 - 33.259 Comparative Change in East Europe
 - 33.264 Contemporary Middle East
 - 33.265 Contemporary Africa
 - 33.276 Contemporary Latin America

- 33.355 The Relations of Western European Nations
- 33.359 Soviet Union in World Affairs
- 33.366 Asian Power Rivalries

- One course (three credit hours) from the following:
 - 33.301 Theories of International Politics
 - 33.307 Quantitative Approaches to International Politics
 - 33.321 International Law
 - 33.325 International Organization
 - 33.340 Foundations of International Communication
 - 33.349 Selected Topics in international Communication
- Nine credit hours in a functional field (International Politics, International Communication, International Development, United States Foreign Policy, Peace and Conflict Resolution, International Economics/International Economic Policy) or a regional area specialization (Africa, the Americas, Asia, Europe, the Middle East, and the Soviet Union.)

Of the total requirements, fifteen credit hours should be taken in SIS and twelve of these should be at the 300 level or above.

Graduate Degree Programs

(M.A. in International Affairs, M.A. in International Communication, M.A. in International Development, M.S. in Development Management, combined J.D./M.A. in Law and International Affairs)

Admission to the Programs

Applicants must hold an accredited bachelor's degree with a cumulative grade point average of at least a B+ (3.30 or higher on a 4.00 scale) and should have had at least twenty-four credit hours of social-science course work relevant to international studies. Students who do not meet these minimum requirements, if otherwise admissible, are assigned additional course work in excess of degree requirements specified at the time of admission.

Application deadline for fall admission is January 15 each year; application deadline for spring admission (master's program only) is November 1. Admitted students may defer matriculation for up to two semesters provided that a written request for deferment is submitted to and approved by both the SIS Graduate Office and the University Graduate Admissions Office.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600. See "International Student Information" in this catalog. All applicants should plan to take the GRE and TOEFL no later than the December administration each year to ensure full consideration of application by the January deadline.

All applicants must submit two letters of reference evaluating undergraduate academic performance and suitability for graduate study in international affairs. Cultural factors are considered in evaluating transcripts and examination results.

Requests for the transfer of a maximum of six graduate credit hours from other accredited institutions to be applied to a master's degree are considered after successful completion of nine credit hours in the graduate program at The American University. A minimum grade of B in each course is required for transfer. Transfer courses must have been completed within eight years of admission and must fulfill stated requirements of the degree program.

General Degree Requirements

- At least thirty-six credit hours of approved graduate course work with a cumulative grade point average of 3.00, including:
 - a) At least fifteen credit hours in a major field for degree including one theory or schools-of-thought course and one graduate-level economics or international economic policy course appropriate to the field
 - b) At least nine credit hours in a related field selected from offerings in SIS or other teaching units of the university
 - c) At least six credit hours in social-science research methodology appropriate to the degree program
 - d) At least six credit hours of research: thesis, substantial research paper, or practicum research completed with a grade of B or better
 - Passage of one written comprehensive examination in the major field for degree. To be eligible to take a comprehensive examination, a student must have advanced to candidacy and must have maintained at least a B average in all graduate course work. Information pertaining to comprehensive examinations is contained in the SIS Field Statements available in the SIS Graduate Office.
 - Demonstration of research and writing skill through completion of a master's thesis, substantial research paper requirement, or a research practicum
- Thesis: six credit hours of thesis credit and submission of the thesis.

Substantial research paper requirement: Internship and a substantial research paper: one three credit hour internship or cooperative education field experience, and one three-credit-hour substantial research paper taken in conjunction with a 600- or 700-level course or two substantial research papers taken in conjunction with a 600- or 700-level course.

Research practicum: six credit hours supervised by major field faculty advisers (by permission and specific arrangement)

- Proficiency in a modern foreign language
Research competence in English and another language relevant to the student's career objectives must be certified by the university's Department of Language and Foreign Studies.

Advancement to Candidacy

Students may apply for advancement to candidacy for the M.A. degree upon completion of nine hours of graduate course work with a B average at The American University.

Students qualifying for advancement must have removed all incomplete grades and satisfied all background deficiencies specified at the time of admission. At the time of advancement, students may request consideration of transfer of up to six credit hours from other master's work. If a student's grade point average drops below B at the end of eighteen hours or at any time thereafter, the student's candidacy for degree may be terminated.

When applying for advancement to candidacy, students formally designate their major field of study, foreign language, social-science methodology sequence, and six-hour research requirement in consultation with faculty advisers. Advancement to candidacy qualifies a student to sit for the comprehensive examination. Students applying to take comprehensive examinations must have qualified in their major field of study and must apply for advancement before announced deadlines.

Special Opportunities

Independent study courses, research internships, special lectures, and seminars enable students to meet renowned scholars and practitioners of international relations to discuss research and career interests. Internships and cooperative education field experience are available for graduate credit. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

M.A. in International Affairs

Major Field Concentrations

International Politics (IP), Comparative and Regional Studies (CRS), United States Foreign Policy (USFP)

Degree Requirements

- Thirty-six credit hours of approved graduate course work for International Politics
Thirty-nine credit hours for Comparative and Regional Studies and for United States Foreign Policy
 - Advancement to candidacy (see general degree requirements)
 - Proficiency in a modern foreign language (see general degree requirements)
- Students with a major field concentration in Comparative and Regional Studies must demonstrate substantive language proficiency, at the FS-3 level at least, in a language appropriate for research in the geographic region of major focus.
- One written comprehensive examination (for information on eligibility and procedures, see general degree requirements)
 - Thesis or substantial research paper requirement (see general degree requirements)

International Politics (IP)**Course Requirements**

- Fifteen credit hours divided into theory, economics, and subfields

Theory

- 33.601 Introduction to Theory in International Relations (3)
or
33.604 Masterworks of International Relations (3)

Economics

- 19.603 Introduction to Economic Theory (3)
or
one other 600- or 700-level course in economics provided prerequisites are met

Subfields

Nine credit hours in one of the following subfields:

International Political Economy

- 33.504 Multinational Corporations (3)
33.519 Special Studies in International Politics: International Economic Policy Coordination (3)
33.565 Japanese-U.S. Economic Relations (3)
33.615 Fundamentals of U.S. Foreign Economic Policy (3)
33.630 The European Community and International Trade (3)
33.696 Selected Topics (Nonrecurring): International Political Economy (3)
(Note: this is an experimental course and is not listed under "Courses of Instruction" in this catalog.)

International Law and Organization

- 33.520 Survey of International Law and Organization (3)
33.621 International Law and the Legal Order (3)
33.625 World Organization and World Order (3)
33.725 Seminar on Law in International Affairs (3)
33.729 Research Seminar in International Law and Organization (3)

Peace and Conflict Resolution

- 33.519 Special Studies in International Politics: Cultural Determinants in International Politics (3)
Human Rights (3)
33.588 International Security and Arms Control (3)
33.605 Cooperative Global Politics (3)
33.607 Peace Paradigms (3)
33.710 Colloquium in International Relations: Readings in Peace Theory (3)

- Nine hours in a related field, consisting of:

Three courses from one of the other major field groups in SIS: Comparative and Regional Studies (CRS), International Development (ID), International Communication (IC), United States Foreign Policy (USFP)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office selected from courses offered in other teaching units at The American University

- Six hours in social-science research methodology consisting of:

33.600 Introduction to Quantitative International Relations (3)
and

One specific or topical methodology course (three credit hours) appropriate to the student's research interests

- Six hours in research and writing consisting of:

33.797 Master's Thesis Supervision (6)
or

Substantial research paper requirement (see general degree requirements) on a topic in the field of International Politics. It may include 33.710 Colloquium in International Relations (3), which may be repeated once for credit (different topic and instructor required).

Comparative and Regional Studies (CRS)**Course Requirements**

- Eighteen credit hours in Comparative and Regional Studies consisting of:

33.670 Theory and Methods in Cross-National Studies (3)

or

A three-credit-hour course in international relations theory

A second three-credit-hour course in comparative methods or theory relevant to the major field concentration

A three-credit-hour economics or international economic policy course appropriate to the major field concentration

Nine credit hours of course work on a single geographic region. Students may choose from the following regions: Africa, East and Southeast Asia, Latin America, Middle East, USSR, or Western Europe. (See Field Statement for course recommendations and groupings pertaining to individual regions).

- Nine credit hours in a related field, consisting of:

Three courses from one of the other major field groups in SIS: International Politics (IP), International Development (ID), International Communication (IC), United States Foreign Policy (USFP)
or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office, selected from the courses offered in other teaching units at The American University

- Six credit hours of social-science research methodology, consisting of:

One general course in social-science methodology such as 33.600 Introduction to Quantitative International Relations (3) and

One specific or topical methodology course (three hours) appropriate to the student's research interest

- Six credit hours of research and writing requirement from the following:

33.797 Master's Thesis Supervision (6) or

Substantial research paper requirement (see general degree requirements)

The thesis must relate to the regional and comparative aspects of the CRS major field concentration. At least three credit hours of substantial research paper requirement should do likewise. A practicum research course must receive prior approval from a faculty adviser as a proper and useful addition to the major field concentration for degree.

United States Foreign Policy (USFP)

Course Requirements

- Eighteen credit hours in United States Foreign Policy, divided into theory, economics and international economic policy, and subfields

Theory

33.689 Seminar in Foreign Policy Analysis (3) or

33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)

International Economics/International Economic Policy

- Three credit hours selected from the following:
19.603 Introduction to Economic Theory

A suitable economic policy course in the Economics Department with prior approval of the International Economic Policy subfield coordinator, provided prerequisites are met. (Students with an extensive economics background may take an equivalency exam prepared by the Economics Department in lieu of 19.603.)

33.565 Japanese-U.S. Economic Relations (3)

33.615 Fundamentals of U.S. Foreign Economic Policy (3)

33.665 Contemporary International Trade and Investment Policies (3) (for students with a strong background in economics and with the prior approval of the International Economic Policy subfield coordinator)

33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3)

33.696

Selected Topics (Nonrecurring):

International Political Economy I (3) (Note: This is an experimental course and is not listed under "Courses of Instruction" in this publication)

Subfields

Twelve credit hours in either the Defense and Foreign Policy subfield or the International Economic Policy subfield

Defense and Foreign Policy

33.682 United States Foreign Policy (3)

- Nine credit hours from the following:

33.519 Special Studies in International Politics:

Domestic Sources of U.S. Foreign Policy (3)

U.S. Diplomatic History (3)

U.S.-U.S.S.R. Relations (3)

33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)

33.583 U.S. in World Affairs (3)

33.588 International Security and Arms Control (3)

33.683 Congress and Foreign Policy (3)

33.684 National Security Policy (3)

33.689 Seminar in Foreign Policy Analysis (3)

Special SIS topics courses (offered irregularly) relating directly to U.S. foreign policy, such as Conduct of American Diplomacy, country- or region-specific courses, or select functional issues courses (law, illicit drugs, intelligence, arms control). With the prior approval of the Defense and Foreign Policy subfield coordinator, a non-SIS course relating directly to U.S. foreign policy may be taken.

International Economic Policy

19.603 Introduction to Economic Theory (3)

19.611 Introduction to International Economics (3)

33.615 Fundamentals of U.S. Foreign Economic Policies (3)

33.665 Contemporary International Trade and Investment Policies (3)

33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3)

With the prior approval of the International Economic Policy subfield coordinator, suitable economic policy and economic theory courses offered by the Economics Department may be taken provided that prerequisites are met.

In addition, SIS special topics courses dealing with international economic policy may be selected. See, for example, International Economic Policy Coordination.

- Nine credit hours in a related field

Students must take three courses in a field related to USFP. Students electing the International Economic Policy subfield may elect the Defense and Foreign Policy subfield as their related field. If so, they must take 33.682 United States Foreign Policy and two other

subfield courses. Similarly, students in the Defense and Foreign Policy subfield may elect the International Economic Policy subfield as their related field. If so, they must take three courses in the International Economic Policy subfield.

The related field requirement may also be satisfied by: Three courses selected from among the core or principal courses offered by one of the other major field groups in SIS (IP, ID, IC, CRS)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office selected from courses offered in other teaching units at The American University.

- Six credit hours in social-science research methodology:
One general course in social-science research methodology (3)
and
One specific or topical methodology course (3) appropriate to research interests
- Six credit hours of research and writing:
33.797 Master's Thesis Supervision (6)
or
Substantial research paper requirement (see general degree requirements). A thesis or substantial research paper must relate clearly to one of the USFP subfields.

M.A. in International Communication

Admission to the Program

See general admission requirements for master's degrees.

Students applying for admission to this program must have had a strong undergraduate major or minor in social and behavioral sciences or communication. For further information, write to the Director, Program in International Communication, School of International Service, The American University, Washington, DC 20016.

Degree Requirements

- A total of thirty-six credit hours of approved graduate course work
- Advancement to candidacy (see general degree requirements)
- Proficiency in a modern foreign language (see general degree requirements)
- One written comprehensive examination in International Communication (for information on eligibility and procedures, see general degree requirements)

- Thesis or substantial research paper requirement (see general degree requirements and IC course requirements)

Course Requirements

- Fifteen credit hours of major field courses in International Communication:
33.640 International Communication (3)
(prerequisite for all major field courses)
33.641 Psychological and Cultural Bases of International Politics (3)
33.642 Cross-Cultural Communication (3)
33.644 Communication and Social and Economic Development (3)
33.645 International and Comparative Communication Policies (3)
- Nine credit hours in a related field:
Three courses approved by the IC faculty from one of the other major field groups in SIS: IP, ID, CRS, USFP, or
Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office selected from courses offered in other teaching units at The American University
- Six credit hours of social-science research methodology chosen from the following:
33.695 Research Seminar in International Communication (3)
33.696 Selected Topics (Nonrecurring) :
Information Systems and International Communication (3)
Politics of International Telecommunication Technology (3)
Special Research Methods in International Communication (3)
- and
One specific or topical methodology course (3) appropriate to the student's research interests and approved by the IC faculty
- Six credit hours of research and writing from the following:
33.797 Master's Thesis Supervision (6)
or
Substantial research paper requirement (see general degree requirements) selected from the following:
33.643 Communication and Political Development (3)
33.690 Independent Study Project in International Studies (consultation with and approval of the IC faculty are required)
33.691 Internship in International Affairs (3)
or
33.692 Cooperative Education Field Experience (3)
33.740 Colloquium in International Communication (3)

A thesis or substantial research paper must relate to the major field of International Communication.

M.A. in International Development

Admission to the Program

See admission requirements for master's degrees.

Degree Requirements

- A total of forty-two credit hours of approved graduate course work
- Certification of a modern foreign language (see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements)
- One written comprehensive examination in International Development

Course Requirements

- Fifteen credit hours of core courses:
 - 19.560 Survey of Economic Development (3) (prerequisite: 19.300 or 19.603)
 - 19.603 Introduction to Economic Theory (3) (this course may be waived by an examination administered by the Economics Department. This waiver reduces the total number of credit hours required for the program to thirty-nine and total hours of core courses to twelve)
 - 33.636 Micropolitics of Development (3)
 - 33.637 International Development (3)
- One of the core courses must be in one of the following:
 - 33.537 Special Topics in Development Management: Rural Development (3)
 - Urban Development (3)
 - 33.696 Selected Topics (Nonrecurring): National Sectoral Development Strategies (3)
- Fifteen credit hours in related field concentrations.

With the agreement of the student's faculty adviser, five courses must be selected from an approved list of courses, with at least nine credit hours selected from one specific concentration as follows:

Community Development and Basic Needs

- 21.679 Nonformal Education (3)
- 33.536 Special Topics in International Development: Health and Development (3)
- World Food Resources and Policies (3)
- 33.537 Special Topics in Development Management: Population and Development (3)
- Rural Development (3)
- Small Scale Enterprise Development (3)
- Urban Development (3)
- Women in Development (3)
- 33.638 Selected Topics in International Development Skills (1)
- 54.533 Community Change in the Third World (3)

Students may propose other elective options from one of the other major field groups in SIS (IP, IC, CRS,

USFP) or from offerings in other teaching units with the approval of the faculty adviser and the IDP director.

Developmental Banking

- 19.510 Cost Benefit and Planning (3)
- 19.533 Development Banking (3)
- 19.564 Development Finance (3)
- 19.633 Development Project Cycle (3)
- 19.634 Negotiating Development Loan Contracts (3)
- 19.635 International Capital Markets Workshop (3)

Development Education

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global Education (3)
- 21.631 Introduction to Administration in Education, Training, and Development (3)
- 21.635 Training Program Design (3)
- 21.639 Administrative Effectiveness Workshop (3)
- 21.678 Comparative and International Education (3)
- 21.679 Nonformal Education (3)

Development Management

- 33.537 Special Topics in Development Management: Managing Decentralization (3)
 - Project and Program Analysis (3)
 - 33.638 Selected Topics in International Development Skills (1)
 - 33.696 Selected Topics (Nonrecurring): Managing Economic Political Reform
 - 54.610 Public Management (3)
 - 54.614 Development Management (3)
 - 54.633 Public Financial Management (3)
- #### *Economics and Finance and International Economic Policy*
- 19.510 Cost Benefit and Planning (3)
 - 19.524 International Economics: Trade (3)
 - 19.525 International Economics: Finance (3)
 - 19.533 Development Banking (3)
 - 19.564 Development Finance
 - 19.611 Survey of International Economics (3)
 - 33.504 Multinational Corporations (3)
 - 33.615 Fundamentals of United States Economic Foreign Policy (3)
 - 33.638 Selected Topics in International Development Skills (1)

- Six credit hours in social-science research methodology:
 - One general course in social-science methodology such as 33.600 Introduction to Quantitative International Relations (3) and
 - One specific or topical methodology course appropriate to the student's research interests and approved by the ID program
- Six credit hours of research and writing:

33.797 Master's Thesis Supervision (6)

or

Substantial research paper requirement (see general degree requirements)

Special Opportunities

International Development Forum The School of International Service, in conjunction with the Washington Chapter of the Society for International Development, sponsors a weekly forum in which noted scholars and policy makers are invited to interact on campus with students, faculty, and members of the Washington development community in discussions of current issues in the international development field.

M.S. in Development Management

The M.S. in Development Management offers a unique opportunity for combining development and public administration to provide state of the art training and practice in development management, as presently being developed both in the United States and at important centers in the Third World. The American University's Washington, D.C. location provides a special opportunity to become familiar with major international-development organizations and to meet with noted scholars and practitioners active in the field.

Admission to the Program

See general admission requirements for master's degrees.

Preference is given to applicants who have significant experience working on development problems or projects in the U.S., Western Europe, or in developing countries.

A student who has performed successfully for more than two years as a program or project manager, management analyst, personnel specialist, budget examiner, or in a significant managerial role above the trainee-professional level before admission to the program may apply through the Director of the M.S. in Development Management program to the Dean of SIS to have the total program requirements reduced by up to six credit hours. This application takes place as part of the student's advancement to candidacy (see general requirements) and must make reference to a number of areas in which the student has acquired basic competence. Credit earned as part of an internship program does not count in this provision.

Degree Requirements

- Forty-two credit hours of approved graduate course work
- Certification of a modern foreign language (see general degree requirements)
- One written comprehensive examination in Development Management (for information on eligibility and procedures, see general degree requirements)

- Practicum research: The research requirement for degree is met by completing six credit hours of practicum research

Course Requirements

- Eighteen credit hours in the major field of concentration:
 - 19.560 Survey of Economic Development (3)
 - 19.603 Introduction to Economic Theory (3) (This course may be waived by an examination administered by the Economics Department. This waiver reduces the total number of credit hours required for the program to thirty-nine and core course hours to fifteen.)
 - 33.636 Micropolitics of Development (3)
 - 33.637 International Development (3)
 - 54.610 Public Management (special section for MSDM) (3)
 - 54.614 Development Management (3)

- Twelve credit hours in related fields of concentration
With the agreement of the student's faculty adviser, four courses must be selected from an approved list of courses, with at least nine credit hours selected from one specific concentration as follows:

Development Management and Information Systems

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.606 Quantitative Analysis for Information Systems (3)
- 55.660 Information Systems Design and Development (3)

Program and Project Management

- 33.537 Special Topics in Development Management: Management of Decentralization (3)
Program and Project Analysis (3)
- 33.596 Selected Topics (Nonrecurring):
Applied Systems Analysis in International Relations (3)
- 33.638 Special Topics in International Development Skills (1)
- 33.696 Selected Topics (Nonrecurring):
Information Systems and International Communication (3)
Managing Economic Political Reform (3)
- 54.604 Public Program Evaluation (3)
- 54.608 Comparative Administrative Systems (3)
- 54.611 Organization Planning and Control (3)
- 54.633 Public Financial Management (3)

Other approved courses that can be used in conjunction with concentrations as specified above.

- 33.536 Special Topics in International Development:
World Food Resources and Policies (3)
- 33.537 Special Topics in Development Management:
Rural Development (3)
Small Scale Enterprise Development (3)
Urban Development (3)

33.638 Selected Topics in International Development Skills (1)

Students may propose other elective options from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units only with the approval of the faculty adviser and the MSDM director.

- Six credit hours of social-science research methodology:
One general course in social-science research methodology such as 33.600 Introduction to Quantitative International Relations (3)
One specific or topical methodology course (3) appropriate to the student's research interests and approved by the M.S. program
- Research and writing requirement:
33.693 Practicum: Action Research in Development Management (6) Must be completed with a grade of B or better.

Special Opportunities

See M.A. in International Development program regarding the International Development Forum.

J.D./M.A. in Law and International Affairs

Admission to the Program

Interested students apply to and are accepted by the Washington College of Law (WCL). They then apply to the School of International Service (SIS) for admission to the master's program, which they may begin after completing one full year of full-time study at WCL. SIS reviews the application materials submitted to WCL and accepts LSAT scores in place of the GRE general scores normally required for admission to other programs. For specific criteria employed by SIS, see the master's program in international affairs above. Admission to either of the participating teaching units in no way implies that admission to the other unit will necessarily be granted. Students who have been admitted to the M.A. in International Affairs may apply to WCL. See WCL admissions requirements.

Degree and Major Requirements

- A total of eighty-six credit hours of course work in the Washington College of Law
Up to six credit hours of School of International Service course work may be credited toward the J.D. requirement.
- A total of thirty-six credit hours of approved graduate work in SIS for the master's portion of the program
Up to fifteen hours of credit in WCL courses dealing with international law and organization or with related topics such as jurisprudence may be credited toward the M.A. requirements (see approved list in the SIS Graduate Office)
- Proficiency in one modern foreign language

- One comprehensive examination in the field of International Politics with a subfield of International Law and Organization administered by the School of International Service
- Thesis: six credit hours (three hours of which may be taken in conjunction with a course approved by the program director) and submission of a thesis or
Substantial research paper requirements: two three-hour research papers in conjunction with approved courses

Course Requirements

- 33.601 Introduction to Theory in International Relations
or
33.604 Masterworks of International Relations
- 33.725 Seminar on Law in International Affairs
- Legal Methods (Washington College of Law)
- An approved research methods course
- An approved course in economics from WCL
- Nine credit hours of related field courses in an SIS field other than International politics (comparative and regional studies, international communication, international development, or U.S. foreign policy) or other approved related field
- Six credit hours for a master's thesis or two substantial research papers

Ph.D. in International Relations

Admission to the Program

Applicants for the Ph.D. degree program may hold a bachelor's or master's degree or its equivalent in a field related to international relations. Applicants should present a prior cumulative grade point average that is substantially above B (3.50 or higher on a 4.00 scale) in a field relevant to international relations.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600 (see "International Student Information" in this catalog). Note: All applicants should plan to take the GRE no later than the December administration each year to ensure full consideration of application by the January deadline.

Applicants for the Ph.D. degree are considered and admitted only for the fall semester each year. The school does not permit students to begin their doctoral work in the spring. Deferral of matriculation in the Ph.D. program is not permitted. In order to be considered for fall admission, applications and all supporting materials must reach the Office of Admissions no later than January 15. Admissions preference is given to applicants who plan to study on a full-time basis.

All applicants must submit at least three letters of reference which evaluate their graduate performance and their suitability for undertaking doctoral study in international relations. Cultural factors are considered in making admissions decisions and in evaluating transcripts and examination results.

Doctoral students may transfer up to thirty credit hours of previous graduate course work earned at accredited institutions with minimum grades of B in each course. Previously earned graduate credits are applied to Ph.D. program requirements if they are relevant to students' programs and dissertation topics. Requests for transfer of graduate credit are considered at the time of advancement to candidacy. Credits completed more than eight years before the semester of matriculation are not transferable.

Major Requirements

- A total of seventy-two credit hours of approved graduate course work, including at least twelve credit hours of dissertation seminar and participation in the semi-monthly Research Seminar
- A minimum grade point average of 3.25 in all doctoral level course work is required. Any incomplete grades or course deficiencies specified at the time of admission must be removed before a student applies for advancement to candidacy. Applications, procedures, and other requirements for advancement may be obtained in the SIS Graduate Office.
- Advancement to candidacy following completion of the Oral Qualifying Examination and certification of proficiency in one modern foreign language
- Students must be certified as proficient in one modern foreign language. Certification is by examination administered by the Department of Language and Foreign Studies and is a condition for advancement to candidacy.
- Four doctoral comprehensive examinations:
Students must sit for an oral qualifying examination during the semester following completion of seminars constituting the international-relations theory core. Satisfactory performance on this examination and certification of proficiency in one modern foreign language constitute advancement to candidacy and qualify students to sit for their field examinations. Students will also be required to present a general statement of plans for a dissertation project for the oral qualifying examination, although the formal proposal for acceptance and for assignment of a faculty committee is presented only after the student has passed all comprehensive examinations.
Students must sit for two written comprehensive field examinations. Students must designate one examination field from the five graduate examination fields offered by the school to serve as a dissertation field. They may designate a second field from those offered by the school or from other teaching units of the university offering doctoral instruction. As an alternative, students may construct a special field, with permission of the Director of Doctoral Studies and on the advice of three qualified scholars, at least two

of whom must be members of the university faculty and all three of whom must agree in writing to serve on an examining committee.

No later than the semester following completion of the written field examinations, students must present their dissertation proposals to the Research Seminar (see course requirements). These occasions will serve as integrative oral comprehensive examinations, to be evaluated as such by members of the university's faculty whom the Director of Doctoral Studies has designated as examiners.

For details on scheduling procedures for comprehensive examinations, see the Director of Doctoral Studies or the SIS Graduate Office.

- Dissertation and defense of the dissertation in an oral examination.

The dissertation requires original research of high quality in a subject that is directly related to international relations and the student's program emphasis.

Course Requirements

- International relations theory: doctoral students must take three doctoral seminars constituting a theory core.
33.701 Classical Theory in International Relations (3)
33.702 Comparative and Cross-National Studies (3)
33.703 Contemporary Theories of International Relations (3)
- Social-science research methodology: doctoral students must satisfy a twelve-credit-hour requirement in research methods, including:
33.704 Conduct of Inquiry in International Relations (3)
33.715 Seminar on Advanced Research Design (3)
Two other courses drawn from a university-wide inventory of courses in social-science methods appropriate to the degree and to the student's research interests
Graduate-level methods courses taken at other universities may be counted in fulfilling this requirement only with permission of the Director of Doctoral Studies.
- Doctoral-level course preparation in two other comprehensive examination fields. Students must take at least two other doctoral seminars. Normally students will take seminars in the fields they intend to offer for the written comprehensive examinations. Also see the SIS program statements for SIS major fields in International Politics (IP), Comparative and Regional Studies (CRS), United States Foreign Policy (USFP), International Communication (IC), and International Development (ID).
- Research and writing requirement: 33.799 Dissertation Supervision (12)
Students participate for at least four semesters in a semi-monthly Research Seminar one credit per semester, counted toward the university's twelve-hour

dissertation supervision requirement, (graded pass/fail) in which doctoral students, members of the school's faculty, and invited scholars present their current research. Approval of dissertation proposals is contingent on their presentation to the Research Seminar.

After presentation to the Research Seminar and passage of the integrative oral comprehensive examination, dissertation proposals must be approved by three scholars who the Director of Doctoral Studies has ascertained are qualified. At least two members of dissertation committees must also be members of the university's full-time faculty and at least one must also be a member of the school's faculty. Chairs of

dissertation committees must be members of the school's faculty. Dissertation proposals must also be approved by the SIS dean.

Students must successfully defend their dissertations in an oral examination on occasions to which the entire university community is invited. Two weeks notice in the *American Reporter* satisfies this requirement (see SIS Graduate Office). Students must present a completed draft of their dissertations for defense. Students are responsible for the final drafts of dissertations meeting university style requirements. Dissertations must be approved by the SIS dean.



Students in the School of Public Affairs complement classroom study with firsthand experience in the cooperative education program

The School of Public Affairs

Dean Cornelius M. Kerwin

Associate Dean Jenny G. McGough

Chair, Department of Government G.M. Bonham

Chair, Department of Justice, Law and Society L. Shelley

Chair, Department of Public Administration B.H. Ross

Full-Time Faculty

University Professor R.J. Simon

Professor D. Aaronson, R.R. Bennett, G.M. Bonham, R.P. Boynton, R.E. Cleary, E.H. DeLong (Dean Emeritus), J. Fishel, J.J. Fyfe, C.H. Goodman (Emeritus), M. Greenberg, S.W. Hammond, J.J. Hanus, R. Johnson, C.M. Kerwin, D.H. Kochler, L. Langbein, W.M. LeoGrande, H.E. McCurdy, M. Meadows (Emeritus), E.V. Mittlebeeler (Emeritus), R.A. Myren (Emeritus), A. Perlmutter, N.S. Preston (Emeritus), I. Robbins, E.S. Robinson (Emeritus), B.H. Ross, D.J. Saari, B.R. Schiller, M. Scgal, L. Shelley, R.G. Smolka, J.A. Thurber, A.S. Trebach, E.C. Viano, M.P. Walker (Emeritus), R.I. Welner

Associate Professor R.A. Lane, G.B. Lewis, H. Lieber, R. Stout, Jr., D.G. Zauderer

Assistant Professor B. Bunch, M.J. Deeb, C.A. Degregario, Katherine Farquhar, C.H. Foreman, D. Golash, G. Ivers, T. Little, I.G. Lorinczi, J.P. Lynch, J. Magnotti, C.J. Nelson, S. Newman, R.G. Shaiko, P.L. Sykes

Instructor G.W. Hutchison

Research Professor A.D. Biderman, C. Cooper, J. Trotter

Distinguished Professor in Public Administration D. Rosenbloom

Distinguished Adjunct Professors in Residence

A. Alpern, J. Bond, M. Comarow, B. Rosen

Distinguished Scholar in Residence

R. Fosen

The School of Public Affairs is committed to education and research programs in the field of public affairs. An interest in public affairs reflects a concern for people and how they interact with government institutions and political systems. Students are able to pursue this interest through a comprehensive educational experience that includes classroom instruction, individual research, and practical professional training. Through its three departments—the Department of Government; Department of Justice, Law and Society; and the Department of Public Administration—the school provides a comprehensive and unified approach to the study of public affairs in the United States and around the world. Each program is designed to focus on specific career interests, including careers in government and not-for-profit organizations, but all are multidisciplinary, issue and policy oriented, and adapted to Washington's unique educational opportunities.

Washington is an ideal location for studying public affairs. As the site of national government and as a world capital, the city provides students with vivid evidence of the interrelationships of domestic and international politics. Students can observe first hand the political, economic, and environmental forces shaping public affairs and public policy. As an integral part of the curriculum, internships in private and public organizations lend a practical dimension to the academic programs and provide the opportunity to interact with policy makers. Washington's facilities for scholarly research and personal enrichment include such government institutions as the Library of Congress, the National Archives, and the Smithsonian Institution, as well as many departmental and agency libraries.

The School of Public Affairs, drawing on the facilities of the university, the Consortium of Universities of the Washington Metropolitan Area, and the Washington community, offers a unique combination of resources for study and practical experience in the field of public affairs. The school's comprehensive range of academic and profes-

sional programs leads to degrees at the bachelor's, master's, and doctoral levels.

The Faculty

The school has more than fifty active full-time faculty members including both nationally recognized scholars and others distinguished by their public service. Augmenting the full-time faculty is an adjunct faculty of eminent government officials and public-affairs practitioners who bring to the classroom the special insights acquired in their professional experience.

Internships and Cooperative Education Opportunities in Washington

The school encourages qualified students to work for course credit as interns in governmental, political, and private organizations. These internships are designed to give students practical involvement in political processes or action programs. For example, a student might work for a member of Congress, the Department of State, the Department of Justice, or for other organizations directly concerned with public policy. Students may also participate in the Cooperative Education Program, which combines course credit and paid practical experience. (See the Cooperative Education Program section in this catalog.)

Independent Study Programs

The School of Public Affairs encourages students to engage in independent study projects related to their fields of interest. These usually take the form of reading, research, and field work in the Washington area, and are arranged directly with a faculty member. Course credit is given.

Career and Professional Opportunities

A public affairs education prepares students for a variety of careers. Graduates serve public or private agencies where they assist in creating or implementing policy alternatives. Some teach public administration, political science, justice, and related courses at universities, colleges, or secondary schools. Others seek opportunities in private-sector professions not formally related to their degree programs. Alumni are serving as city managers, lawyers, management analysts, investigators, legislative assistants, lobbyists, budget or systems analysts, newspaper editors, research associates, professors, and government officials, appointed and elected.

Honorary Societies

The school recognizes both academic and professional achievement by students and alumni through membership in national honorary societies. Pi Sigma Alpha, the national political science honor society, founded in 1920, is open to selected juniors, seniors, and graduate students majoring in political science or international relations.

Alpha Phi Sigma is the national honor society for criminal justice. It recognizes scholastic excellence by undergraduate and graduate students in the justice field. Sigma Phi Omega, the university's prelaw honor society, is open to all qualified undergraduate students, sophomore and above.

Pi Alpha Alpha is the national honorary society for public affairs and administration. The School of Public Affairs has one of the eighteen charter chapters. Graduate students completing their programs are invited to join if they meet the academic standards set by the chapter.

Undergraduate Study

Undergraduate students may plan their academic programs to meet personalized learning objectives.

Recognizing that a multidisciplinary education is required to meet the ever-changing nature of the public affairs profession, advisers often encourage students to take courses in other academic units.

Study Abroad

The School of Public Affairs provides opportunities for study abroad, from the traditional Junior Year Abroad to special programs such as the London, Rome, Copenhagen, Brussels, Vienna, Paris, Mexico City, Buenos Aires, and Beijing semesters. In addition, the summer sessions include courses, workshops, and tours abroad which are relevant to the curriculums.

Graduate Study

The graduate degree programs in the School of Public Affairs serve a number of diverse educational needs. Most master's programs educate students for specific professional careers in government and other nonprofit organizations at local and national levels. These programs emphasize managerial, analytical, and conceptual skills necessary for professional success in the public service. Others provide students with a general understanding of the academic disciplines related to public affairs. Doctoral programs are designed to prepare qualified individuals for professional appointments in teaching, scholarly research, and executive management and are offered in political science, public administration, and sociology: justice.

Unique Educational Resources

Computer-aided instruction and research is encouraged and facilitated by a variety of technical resources. The university operates quantitative teaching and research laboratories to introduce students to the use of computers, statistics, and mathematical methods in social research and management applications. These labs are staffed with graduate assistants who tutor new users and provide professional consulting to experienced users.

Through the lab, students have access to IBM personal computers or to the IBM 4381 mainframe computer operated by the university. Software is provided for the personal computers for word processing, spreadsheets, graphics, statistics, mathematical modeling, and computer-programming applications. An extensive selection of programs and languages is available on the mainframe for social science applications, including the Statistical Package for the Social Sciences (SPSS) and the Statistical Analysis System (SAS). As a member institution of the Inter-University Consortium for Political and Social Research, the school has access to thousands of social science data sets and maintains hundreds of these on tape at the university.

The Center for Congressional and Presidential Studies

Founded in 1980, the Center has become the focus of research and training in the Department of Government. A unique institution, the Center brings together scholars, students, public officials, journalists, and leaders in public and private organizations to study Congress and the presidency through scholarly forums, colloquiums, and seminars on current topics.

The Center's many activities provide an opportunity for graduate students to work on research projects, assist with publications, and gain valuable practical and scholarly experience in the process.

The Campaign Management Institute

Now in its eighth year, this innovative institute was designed by the school's faculty, together with leading Democratic and Republican political managers and campaign consultants to serve as a foundation for graduate students, campaign workers, political activists, and legislative staffers interested in campaign management. The Institute's intensive program covers campaign organization, strategy, research, fund raising, polling, paid media, earned media, general management, targeting, campaign law and ethics, computer technology, and get-out-the-vote.

Through this program, dozens of graduate students have found placement in national, state, and local campaigns as well as in survey research and campaign management firms.

Government

Chair G.M. Bonham

Academic Advisers Athena Argypoulos, Robert Briggs

Full-Time Faculty

Professor G.M. Bonham, J. Fishel, M. Greenberg, S.W. Hammond, J.J. Hanus, W.M. LeoGrande, M. Meadows, A. Perlmutter, J.A. Thurber, M.P. Walker (Emeritus)

Associate Professor R.A. Lane

Assistant Professor M.J. Deeb, C.A. Degregario, C.H. Foreman, G. Ivers, T. Little, I.G. Lorincz, C.J. Nelson, S. Newman, R.G. Shaiko, P.L. Sykes

The Department of Government makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of political science and public affairs.

The department's undergraduate program focuses on government and public affairs as an aspect of a broad liberal arts education. It prepares the student for an enlightened role in national, community, and world affairs. This program can lead to a career in public affairs or any private or not-for-profit area that deals with the growing interrelationship between the public and private sectors. It also provides a solid and comprehensive foundation for the student who plans to pursue further education before entering a career in politics or public affairs, governmental administration, law, teaching, or research.

The graduate program is designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in political science are flexible in order to meet the educational needs of a diverse student population.

B.A. in Political Science

Admission to the Program

New freshmen and transfer students are admitted through the university's Office of Admissions. Students currently enrolled in the university who wish to transfer into the Department of Government or develop a double major or minor should have a grade point average of 2.00 and the approval of the undergraduate academic adviser.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-four credit hours with grades of C or better

Course Requirements

- 53.110 The Individual and the Polity /S 4:1 (3-4) or
53.120 Introduction to American Politics /S (3-4)
- One of the following:
53.105 Individual Freedom vs. Authority /A 2:1 (3)
53.200 Modern Political Thought (3)
53.301 Classical Political Thought (3)
53.302 American Political Thought (3)
- One of the following:
53.130 Comparative Politics /S 3:1 (3)
53.231 Third World Politics /S (3)
53.330 Politics of Industrial Societies (3)
- One of the following:
33.110 Beyond Sovereignty /S 3:1 (3)
33.202 World Politics /S (3)
33.381 Foreign Policies of the Great Powers (3)
33.382 The Analysis of United States Foreign Policy (3)
- Three hours of social science research methods or any approved statistics course

- Twenty-one credit hours at the 200 or 300 level
- Six credit hours at the 400 or 500 level
- Twelve credit hours to be distributed over two of the following cognate disciplines above the introductory level: economics, history, international relations or foreign policy, sociology and specified courses in American studies, anthropology, communication, justice, philosophy, and psychology

No more than nine hours (with a maximum of six hours in any one area of concentration) of the following may be applied to these requirements: internships, co-operative education, independent study, independent reading, Washington Semester programs, and American University study abroad programs.

Political science majors may count up to three courses offered by the School of International Service, in addition to 33.202, 33.381, or 33.382 as part of the major and related course requirements. Students using two School of International Service courses under the major are limited to one School of International Service course under related course requirements.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)

Admission to the Program

This interdisciplinary major is designed for students who want a breadth of background necessary to participate effectively in decision making for public affairs and the practical training necessary to deal with social problems as public issues. Admission requires a grade point average of 2.00 and approval by the undergraduate academic adviser. All arrangements for the major should be made no later than the first semester of the junior year.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-seven credit hours with grades of C or better

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.310 Public Speaking (3)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 53.110 The Individual and the Polity /S 4:1 (3-4)
or
53.120 Introduction to American Politics /S (3-4)
- 53.391 Internship (3-9)
- 53.490 Independent Study Project in Government (3) or 53.489 CLEG Seminar (3)
- 73.104 Introduction to Systems of Justice /S (3)
- One of the following:
53.105 Individual Freedom vs. Authority /A 2:1 (3)
53.200 Modern Political Thought (3)
53.301 Classical Political Thought (3)
53.302 American Political Thought (3)
- One of the following:
53.215 Civil Rights and Liberties /S 4:2 (3)
53.350 American Constitutional Development (3)
53.352 Law and the Political System /S (3)
- Twenty-four additional credit hours, including twelve hours at the 300 level or above, selected from a list of approved courses in communication, legal institutions, economics, and government. The list of approved courses is available in the Department of Government office. Students must choose these twenty-four additional hours so that their total program includes nine hours from each CLEG area.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Washington Semester Program in American National Government

Admission to the Program

This special, one-semester program draws on the unique environment of Washington to offer students a full program of seminars with decision makers and others involved in the policy process; an internship in a governmental office or with an interest group; and either a research project or a course elected from regular university offerings. The program is open to students of The American University and students from institutions across the country. Requirements for admission to the program are (1) nomination by a Washington Semester faculty representative; (2) a grade point average of at least a 2.50 on a 4.00 scale; (3) at least one course or equivalent in American national government; and (4) at least second-semester sophomore standing at the time of participation. Selection is competitive.

This program does not lead to a degree. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements

- 53.410 Washington Semester in American Government and Politics Seminar I (4)
- 53.411 Washington Semester in American Government and Politics Seminar II (4)
- 53.412 Washington Semester in American Government and Politics Research Project (4)
- 53.416 Washington Semester in American Government and Politics Internship (4)
or
a regular American University course from among evening offerings

Washington Summer Seminar

Admission to the Program

This special, two-week summer program introduces high-school students to government in action in Washington, D.C., through seminars with practitioners in public affairs, with those seeking to influence policy, and with faculty who observe the political process. A student must be nominated by a guidance counselor or social studies teacher and have a C or better average.

This program does not lead to a degree. Students earn two credit hours of undergraduate credit that may be applied toward the requirements for an undergraduate degree.

Course Requirements

- 56.100 Washington Summer Seminar (1)

Special Opportunities

Students attend cultural performances in Washington as part of the program.

Semester in London

Admission to the Program

The program is open by competition to juniors and seniors. The minimum grade point average for consideration is 2.75 on a 4.00 scale. Academic excellence and an ability to adapt to another culture are essential.

This program does not lead to a degree. Students receive sixteen credit hours of undergraduate credit that may be applied toward the requirements for an undergraduate degree.

Special Opportunities

Students live with a British family for the semester. Ample time is provided for independent travel, and excursions to Stratford-upon-Avon and Brussels are included. Students enjoy library and student union privileges at the University of London.

Minor in Political Science

The minor in Political Science is intended for those who prefer to pursue another major but wish to increase their knowledge of an area of activity that is a part of our lives at every turn. Through this minor the student has a greater potential to achieve enlightened citizenship.

Requirements

- 53.110 The Individual and the Polity /S 4:1 (3-4)
or
53.120 Introduction to American Politics /S (3-4)
- Three credit hours in political theory at the 200/300 level
- Fifteen credit hours in other Department of Government courses, including at least nine credit hours at the 300 level and at least three credit hours at the 400/500 level

Combined B.A./M.A. Program in Political Science

Admission to the Program

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree with a major in political science. This is accomplished by allowing certain specified graduate-level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.A. program requires junior standing, a cumulative grade point average of 3.00,

a completed application form (forms are available from the Department of Government), a written faculty recommendation, an essay on the student's interests and abilities in political science and an interview with the Department of Government chair.

Course Requirements (Senior Year)

- The course requirements for the M.A. in Political Science
- 53.650 Political Analysis (3) (applicable to both degrees)
- Three courses specified by the Department of Government as applicable to both degrees

Recommendations

Recommended preparatory courses for the combined B.A./M.A. program include courses in economics and statistics.

Note: Acceptance and participation in the B.A./M.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Office of Admissions according to its deadlines, but no later than the last undergraduate semester. If a 3.00 cumulative grade point average is maintained, a student can expect to be admitted to the master's program.

M.A. in Political Science

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the GRE. All applicants are evaluated on the basis of scholastic achievement in their last sixty credit hours of undergraduate work, two letters of recommendation and an essay on career interest. Applicants who wish to be considered for departmental honor awards must apply for full-time status.

Fields

American Politics and Comparative Politics

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work
- A written four-hour comprehensive examination in the major field

Course Requirements

American Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)

- Major field includes fifteen credit hours in American Politics. Students should select up to five courses in this area in order to prepare for the comprehensive examination. Courses may be selected from either the 500 or 600 level. Required:

one course in congressional studies, preferably 53.651 The Legislative Process (another course on Congress might be substituted after discussion with an adviser)
53.652 The Presidency and the Executive Branch.

one course on public opinion, political behavior, elections, parties and interest groups, or the Campaign Management Institute (CMI)

- Second field includes nine credit hours selected from a variety of areas in political science or from other disciplines

Comparative Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)
- One political theory course
- Major field includes six credit hours from the following:

53.630 Comparative Politics of Developed Nations (3)

53.631 Comparative Politics of Developing Nations (3)

- Six additional hours drawn from the comparative cross national and regional studies offerings in the School of Public Affairs and the School of International Service
- Second field includes three courses (nine credit hours) in a logically related area in political science or from other disciplines in the university

An internship may be substituted for up to three hours of the second-field courses. If the internship option is selected, students must register for 53.692 Cooperative Education Field Experience (3).

Ph.D. in Political Science

Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a grade point average of 3.20 in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Comparative Politics, Policy Analysis, and Public Administration

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of forty-eight credit hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination at the end of the second semester of study.
- Students take written comprehensive examinations in American Politics and one of the remaining major areas described in the following two paragraphs. They master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

The remaining major areas include Comparative Politics, Public Administration, Policy Analysis, and any Ph.D. field in the School of International Service (except Comparative and Regional Studies) with the approval of the SPA Director of Doctoral Programs.

Two of the three major areas must be offered by the School of Public Affairs. As long as this requirement is satisfied, students seeking the Ph.D. in political science may include as a comprehensive or non-comprehensive area any Ph.D. field offered by any other teaching unit at A.U., subject to the approval of the SPA Director of Doctoral Programs.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), and 53.614 Research in Political and Administrative Behavior (3).

Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students may choose research projects within one of the major areas or they may select a research specialization from one of the other graduate fields within the school.

Each student prepares a research proposal for the dissertation project. It is the responsibility of the student to secure the agreement of a School of Public Affairs full-time tenured or tenure-track faculty member to serve as the chair of his or her dissertation committee. One of the two other members of the committee may be from outside SPA. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty.

The committee and the SPA Director of Doctoral Programs (acting for the dean) must approve the defense and the research proposal. The topic covered

by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of twelve credit hours of directed study, including the research seminar. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the dissertation committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time tenured or tenure-track faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to present an acceptable dissertation or dissertation proposal within the time limit allowed for completing the doctorate, or does not successfully complete the oral defense, his or her candidacy may be terminated at that time.

Course Requirements

- Four proseminars: 53.710 Seminar in American Politics (3), 53.720 Seminar in Policy Analysis (3), 53.730 Seminar in Comparative Politics (3), and 53.710 Seminar in Public Administration (3). Students entering the Ph.D. program with a master's degree in political science or public administration may petition the SPA Director of Doctoral Programs to take only three of the required proseminars.
- Two additional courses in each of the two written comprehensive areas (some areas may require three courses beyond the pro-seminar, rather than two)
- An additional course in the non-comprehensive area
- Three courses in research design and methodology: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), and 53.614 Research in Political and Administrative Behavior (3)
- Remaining twelve (or fifteen) credit hours on the dissertation, including the research seminar 53.799 Doctoral Dissertation Seminar in Political Science, and, for those entering the program with a bachelor's degree, additional graduate level courses

Justice, Law and Society

Chair Louise I. Shelley

Academic Advisers Linda Spicer, Margaret Stanton

Full-Time Faculty

University Professor R.J. Simon

Professor D. Aaronson, R.R. Bennett, J.J. Fyfe, R. Johnson, I. Robbins, D.J. Saari, L.I. Shelley, A.S. Trebach, E.C. Viano, R.I. Weiner

Assistant Professor D. Golash, J.P. Lynch

Instructor G.W. Hutchison

Research Professor A.D. Biderman, C. Cooper, J. Trotter

Distinguished Scholar in Residence R. Fosen

The Department of Justice, Law and Society has one of the oldest programs in the field of justice in the United States. There are currently twelve full-time faculty in the department with educational backgrounds in law, criminology, criminal justice, philosophy, political science, sociology, and social work. The department offers two Bachelor of Arts degrees, in Justice and in Law and Society; a Master of Science degree in Justice; a Ph.D. in Sociology: Justice; and a joint Juris Doctor and Master of Science program in Law and Justice.

The B.A. in Justice curriculum provides a thorough foundation in laws, regulations, policies, social conditions, and public institutions (justice systems) that define and resolve problems of justice. It also explores the philosophical, legal, and moral foundations on which justice systems and institutions function. The B.A. in Law and Society cuts across traditional disciplinary boundaries and provides students with a background in law, justice, social sciences, humanities, and public policy. Both undergraduate majors can be considered prelaw majors.

The graduate curriculum focuses on the nature, function, and foundation of law and its relationship to problems that arise from its implementation in justice systems. It provides students with theoretical and methodological knowledge to understand, analyze, formulate, and implement justice programs and policies toward improvement of justice systems and the reduction of crime and other forms of injustice within the United States and worldwide. Students may choose several of the following areas of concentration: Administration and Organization of Justice; Law and Society; Court Management; Drugs, Justice, and Public Policy; Law Enforcement; and, Corrections: Juvenile and Adult. The program provides sufficient flexibility to allow a student to develop a program that takes into account previous academic background and meets particular interests and professional and academic goals.

The department's programs prepare students for law school and further graduate study, as well as for entry-level positions and professional careers in the justice field. Washington, D.C. provides a constant source of Coopera-

tive Education and internship placements, which often point the way to challenging employment.

B.A. in Justice

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-eight credit hours with grades of C or better

Course Requirements

- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- 73.205 History and Philosophy of Criminology /A, S (3)
- 73.307 Justice and Law /A, S (3)
- 73.308 Justice and Morality /A, S (3)
- 73.380 Introduction to Justice Research (3)
- Six credit hours in law enforcement chosen from the following:
 - 73.210 Policing in America: An Introductory Survey /S (3)
 - 73.211 Contemporary Issues in American Law Enforcement (3)
 - 73.311 Introduction to Forensic Science (3)
 - 73.313 Organized Crime (3)
 - 73.315 White-Collar and Commercial Crime (3)
 - 73.320 Criminal Procedure (3)
 - 73.321 Evidence (3)
 - 73.382 Determination of Fact (3)
 - 73.411 Problems in Forensic Science (3)
- Six credit hours in corrections chosen from the following:
 - 73.230 Contemporary Corrections in the United States (3)

- 73.330 Institutional Corrections /S (3)
- 73.331 Corrections in the Community (3)
- 73.431 The Prison Community (3)
- 73.517 Victimology (3)

- Three credit hours in judicial administration chosen from the following:
73.340 Judicial Administration: Criminal (3)
73.341 Judicial Administration: Civil (3)

- Three credit hours in law and society chosen from the following:

- 73.100 Justice in America /S 4:1 (3)
- 73.206 Social Justice and Deviant Behavior (3)
- 73.253 Juvenile Delinquency and Youth Crime (3)
- 73.352 Psychiatry and the Law /S (3)
- 73.420 Legal Reasoning (3)
- 73.450 Prevention of Crime and Delinquency (3)
- 73.454 Violence in America (3)
- 73.458 The Juvenile and the Law (3)
- 73.463 The Free Press and the Administration of Justice (3)
- 73.500 Moral Issues in Criminal Justice (3)
- 73.501 The Concept of Justice (3)
- 73.502 The Concept of Law (3)
- 73.504 Comparative Criminology and Criminal Justice (3)
- 73.541 The Police State (3)

- Twelve additional credit hours from any of the four areas listed above, as well as the area of drugs, justice, and public policy:

- 73.300 Drugs and Society /S (3)
- 73.301 Drugs, Consciousness, and Human Fulfillment (3)
- 73.302 Alcoholism and Society (3)
- 73.550 Drugs, Crime, and Public Policy (3)
- 73.551 Comparative Justice Studies (3)
- 73.552 Drug Abuse and the Law (3)
- 73.553 Drug Abuse Treatment (3)

Courses may also include:

- 73.390 Independent Reading Course in Justice (1-6)
- 73.392 Cooperative Education Field Experience (3-9)
- 73.490 Independent Study Project in Justice (1-6)
- 73.491 Internship in a Justice Setting (1-6)

- At least sixty credit hours of course work outside the Department of Justice, Law and Society including:

- 42.202 Basic Statistics /N (4)
- 57.105 Psychology: Understanding Human Behavior /S 4:1 (3)
- 65.100 American Society /S 4:1 (3)

Students are advised to select some of their elective courses from related areas such as political science, economics, history, anthropology, psychology, sociology, philosophy, literature, computer systems applications, and accounting.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation,

graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Law and Society

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

This program is designed for students who anticipate further education or careers in law and law-related areas, as well as in the social sciences and the humanities.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-eight credit hours with grades of C or better

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- 73.307 Justice and Law /A, S (3)
- 73.380 Introduction to Justice Research (3)
- 73.420 Legal Reasoning (3)
- Twenty-seven credit hours chosen in consultation with the program adviser from courses in the following areas:
 - law and the city;
 - law and economics;
 - justice systems;
 - legal systems-normative;
 - comparative legal systems;
 - theoretical foundations of law; and
 - law and public policy.

The list of approved courses is available in the Department of Justice, Law and Society office.

Courses may also include:

- 73.390 Independent Reading Course in Justice (1-6)
- 73.392 Cooperative Education Field Experience (3-9)
- 73.490 Independent Study Project in Justice (1-6)
- 73.491 Internship in a Justice Setting (1-6)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Washington Semester Program in Justice

Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Admission to the Program

This special one-semester program draws on the unique environment of Washington, D.C. to provide students with a realistic picture of the processes of the criminal justice system; the interrelationships of the institutions operating in that system; the problems of civil justice systems; and local, national, and international levels of the justice system. This is accomplished through seminars, internships, and independent research projects. The program is open to students of The American University and students of affiliated institutions across the country. Requirements for admission to the program are: (1) a major in justice or a related social science; (2) nomination by two Washington Semester faculty representatives; (3) 2.50 grade point average on a 4.00 scale; and (4) at least second-semester sophomore standing at the time of participation.

Course Requirements

- 73.490 Independent Study Project in Justice (1-6) (or a regular American University course)
- 73.491 Internship in a Justice Setting (1-6)
- 73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4)
- 73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4)

Special Opportunities

Internships, discussions with justice officials at all levels of government, and field trips to justice agencies.

Minor in Justice

Requirements

- 73.103 Introduction to Problems of Justice /S (3)

- 73.104 Introduction to Systems of Justice /S (3)
- Twelve credit hours in justice at the 300 level or above. No more than six credit hours may be taken from any one concentration area (law enforcement; corrections; judicial administration; law and society; and drugs, justice, and public policy)

Combined B.A./M.S. Program in Justice

Admission to the Program

This program enables students to complete the B.A. and the M.S. in five years. Undergraduate students with majors in justice or related disciplines at The American University apply to this program at the Office of Graduate Affairs and Admissions according to its deadlines, but no later than the last undergraduate semester. Admissions decisions are based on the normal M.S. standards and procedures of the school.

Course Requirements

- All requirements for the B.A. in Justice or related discipline at The American University
 - All requirements for the M.S. in Justice
- Students may use twelve credit hours of course work in justice at the 500 level or above to satisfy the requirements for both degrees.

M.S. in Justice

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination verbal and quantitative general tests. A background of relevant undergraduate preparation in the social, behavioral, and administrative or managerial sciences is preferred, but not absolutely required. All applicants are evaluated on the basis of scholastic achievement in their last sixty credit hours of undergraduate work, test scores and two letters of recommendation from professors or employers.

Tracks

Administration and Organization of Justice; Law and Society; Court Management; Drugs, Justice, and Public Policy; Law Enforcement; and Corrections: Juvenile and Adult

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work
- One three-hour written comprehensive examination in an area of specialization (see tracks above)
- Two research courses are required in lieu of a thesis. (Prerequisite: a course in basic statistics or proficiency examination equivalent.)

Course Requirements

- 73.600 Proseminar: Issues in Justice (3)
- 73.680 Introduction to Justice Research I (3)
- 73.681 Introduction to Justice Research II (3)
- Twenty-seven credit hours (nine courses) selected from the following six tracks:

Administration and Organization of Justice

- 73.521 Law and the Mental Health System (3)
- 73.522 Crime and Public Policy (3)
- 73.551 Comparative Justice Studies (3-6)
- 73.606 Nature and Function of the American Legal System (3)
- 73.608 The Constitution and Criminal Procedure (3)

Law and Society

- 73.500 Moral Issues in Criminal Justice (3)
- 73.501 The Concept of Justice (3)
- 73.502 The Concept of Law (3)
- 73.503 Criminal Behavior: A Psychosocial Analysis (3)
- 73.504 Comparative Criminology and Criminal Justice (3)
- 73.541 The Police State (3)
- 73.604 Theoretical Issues in Justice (3)
- 73.609 The Political Basis of the Criminal Justice System (3)

Drugs, Justice, and Public Policy

- 73.550 Drugs, Crime, and Public Policy (3)
- 73.551 Comparative Justice Studies: Institute on Drugs, Crime, and Justice in England and America (6)
- 73.552 Drug Abuse and the Law (3)
- 73.553 Drug Abuse Treatment (3)

Court Management

- 73.660 Critical Issues in Judicial Administration (3)
- 73.661 Complex Organizational Theory in Court Systems and Legal Organizations (3)
- 73.662 Court Management Practices (3)
- 73.690 Independent Study Project in Justice (1-6)

Law Enforcement

- 73.540 Police and the Political System (3)
- 73.612 White-Collar Crime in Government, Business, and Labor (3)
- 73.641 Management and Policy Issues in Law Enforcement (3)
- 73.642 Seminar on Contemporary Literature in Law Enforcement (3)

Corrections: Juvenile and Adult

- 73.517 Victimology (3)
- 73.551 Comparative Justice Studies (3-6)
- 73.683 Institutional Corrections (3)
- 73.684 Community Corrections (3)

73.685 Juvenile Corrections (3)

Internships and Cooperative Education

- 73.691 Internship in a Justice Setting (1-6)
- 73.692 Cooperative Education Field Experience (3-6)

Students without practical experience are encouraged to participate in a field experience to gain insight into the operation of justice agencies and research activities.

J.D./M.S. in Law and Justice

Admission to the Program

The program enables students to complete the J.D. and M.S. degrees in approximately four years. Students must apply to and be accepted by both the Washington College of Law and the Department of Justice, Law and Society. Admission to either the M.S. or J.D. program in no way implies that admission to both programs will necessarily be granted.

Students may apply to both programs simultaneously or begin either program separately and then apply to the other program. However, once the study of law has begun, no justice courses can be taken until one full year of full-time law study has been completed.

Admission criteria are the same as those for the master's program in justice. If application is made initially to the Washington College of Law (WCL), LSAT scores are accepted in place of GRE general scores and application materials submitted to the WCL are reviewed for admission to the Department of Justice, Law and Society.

Requirements

- All requirements for the Juris Doctor in the Washington College of Law
- All requirements for the Master of Science in Justice in the Department of Justice, Law and Society

Students may apply six credit hours of justice courses to the J.D. degree and six credit hours of law courses to the M.S. degree in Justice. The law adviser must approve the justice courses and the justice adviser must approve the law courses in advance of taking the courses to be applied toward both degrees.

Ph.D. in Sociology: Justice

Admission to the Program

Admission to the program in Sociology with a Specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law and Society.

To apply for admission to this program, students must complete twelve or more credit hours of approved graduate-level course work in sociology with a grade point average of higher than 3.00 on a 4.00 scale, supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit GRE (General) scores.

A minimum of seventy-two hours of approved graduate work is required for the Ph.D. in the program. Normally these seventy-two hours consist of sixty hours of course work and twelve hours of directed study on the dissertation.

Four comprehensive examinations are required: sociological theory, methods of social research, a field of concentration approved by the Department of Sociology, and the candidate's approved area of concentration, administered by the Department of Justice, Law and Society. At least one of the two examinations must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written. The dissertation committee is chaired by a member of the Department of Justice, Law and Society.

For more information about the Ph.D. in Sociology: Justice, see "Sociology" in this catalog.

Public Administration

Chair Bernard H. Ross

Academic Adviser Brenda Manley

Full-Time Faculty

Professor R.P. Boynton, R.E. Cleary, C.M. Kerwin, D.H. Kochler, L. Langbein, H. McCurdy, B.H. Ross, B.R. Schiller, M. Segal, R.G. Smolka

Associate Professor G.B. Lewis, H. Lieber, R. Stout, D. Zauderer

Assistant Professor B. Bunch, K. Farquhar, J. Magnotti

Distinguished Professor of Public Administration D. Rosenbloom

Distinguished Adjunct Professors in Residence A. Alpern, M. Comarow, B. Rosen

The Department of Public Administration makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of public administration.

The graduate programs are designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in public administration are flexible in order to meet the educational needs of a diverse student population.

Minor in Public Administration

The minor in Public Administration is designed for students interested in pursuing careers in the public or not-for-profit sector. It allows students to major in the social sciences or humanities while specializing in an academic area that is more career focused. Students interested in this minor are required to take three designated courses plus four electives for a total of twenty-one credit hours.

Requirements

- 53.110 The Individual and the Polity /S 4:1 (3-4) or 53.120 Introduction to American Politics /S (3-4)
- 54.260 Administrative Politics /S (3)
- 54.343 Governmental Management (3)
- Twelve additional hours from the following:
 - 10.353 Principles of Organizational Theory, Behavior, and Management (3)
 - 53.240 Metropolitan Politics /S (3)
 - 53.560 Intergovernmental Relations (3)
 - 54.345 The Law of Public Administration (3)
 - 54.444 Governmental Budgeting (3)
 Courses related to the field of public administration in the 53.xxx series with the approval of the public administration chair.

Combined B.A./M.P.A. Program in Public Administration

Admission to the Program

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree with a major in public administration. This is accomplished by allowing twelve credit hours of certain specified graduate-level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.P.A. program requires junior standing, a cumulative grade point average of 3.00, a completed application form (forms are available from the Department of Public Administration), a written faculty recommendation, an essay on the student's interests and abilities in public administration, and an interview with the Department of Public Administration chair.

Course Requirements (Senior Year)

- The course requirements for the M.P.A.

B.A./M.P.A.:

- 54.610 Public Management (3) (applicable to both degrees)
- Three courses specified by the Department of Public Administration as applicable to both degrees

Recommendations

Recommended preparatory courses for the combined B.A./M.P.A. program include courses in economics, statistics, computer science, accounting, writing and other communication skills, undergraduate internships, and related work experience.

Note: Acceptance and participation in the combined B.A./M.P.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Office of Admissions in the last undergraduate semester. If a cumulative grade point average of 3.00 is maintained, a

student can expect to be admitted to the master's program.

M.P.A. in Public Administration

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation and an essay on career interests. GRE is desirable but not required for admission to the program. The Graduate Record Examination is required for full-time applicants who wish to be considered for a departmental honors award.

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate work
Students with the requisite professional experience may be exempted from six credit hours of the total requirement (see Special Opportunities below)
- One written comprehensive examination, lasting four and a half hours, must be passed by each student. The examination tests knowledge of the core courses listed below.
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
54.601 Methods of Problem Solving I (3)
54.602 Methods of Problem Solving II (3)
54.610 Public Management (3)
54.612 Politics of Administration (3)
54.630 Public Managerial Economics (3)

Course Requirements

Management core (nine courses):

- 54.601 Methods of Problem Solving I (3)
- 54.602 Methods of Problem Solving II (3)
- 54.610 Public Management (3)
- 54.612 Politics of Administration (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)
- 54.665 Public Personnel Administration (3)

All M.P.A. students are required to attain basic competency in the following areas: public management; methods of problem solving in public administration; information systems and computer applications in management decision making; microeconomics applied to the public sector; policy making, politics, and administration; legal aspects of public administration; leadership, interpersonal relations and the behavioral sciences; public financial management; and personnel administration.

- Management skill (one course): Students select at least one course designed to increase practical skills needed by public managers.
- Area of concentration (three courses): Students take at least three courses in a single area of concentration or subfield within it. The three courses must complement one another and lead to an advanced level of study. Any remaining courses necessary to complete the M.P.A. program are selected from advanced offerings in supporting fields. Areas: policy analysis; urban affairs; public financial management; international administration; arts management; management information systems; human resources and organization development; court management; and procurement and grants management. Internship: Preservice students about to begin their career participate in a supervised internship. An internship seminar, equal in credit to one course, relates on-the-job experience to current political and administrative issues. The formal internship program is optional for students already employed.

Special Opportunities

A student who has performed successfully for several years as a manager in a supervisory role before admission to the M.P.A. program may apply to the chair of Public Administration to have the total program reduced by up to six credit hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program does not count toward the total course requirement for students availing themselves of this provision. Students seeking to use both the significant managerial experience clause and the transfer credit allowance are limited to a total of nine credit hours.

The Key Executive Program is a twenty-month course of study that offers participants the perspectives and competencies necessary for effective performance in high-level executive and managerial work. The curriculum includes the major activity areas used in certifying candidates for career positions in the Senior Executive Service.

Classes are held on Fridays and Saturdays. Participants continue to work at their jobs while completing their studies. Upon completion of this thirty-six credit-hour graduate program, participants are awarded the Master of Public Administration degree.

The program is oriented to civilian personnel in the federal government, military or other uniformed personnel, and state and local officials.

Admission to the Key Executive Program is competitive and restricted to GS14s or above (or the equivalent) who exercise significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. A bachelor's degree is required. Deadline for application for the 1991-1992 academic year is July 5, 1991.

Special Master's Degree Programs

In conjunction with the M.P.A. program outlined above, the Department of Public Administration offers or participates in a number of special master's degree programs for persons who have already begun their careers. Each program is tailored to the needs of a specific organization or the specific students participating in it, although the degree requirements are based on the M.P.A. requirements outlined above. Participants in these special programs are generally nominated or sponsored by the organizations they work for.

The special degree programs currently available include:

The Key Executive Program, designed to meet the executive development needs of senior government managers. Begun in 1975, it is designed for GS-14s and above (or equivalent) who have significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. They spend twenty months studying the skills, knowledge, and values needed by top-level public executives.

The Public Financial Management Program helps officials to broaden both their financial and public management skills. It focuses on the needs of government employees at all levels—federal, state, and local—and employees in the not-for-profit sector.

The Human Resource Development Program is administered jointly by the Department of Public Administration and the NTL Institute for Applied Behavioral Science and is designed for persons who want to improve their skill in the field of human resource development.

The Procurement Management Program is designed to equip professionals in both the private and public sectors to operate effectively in the complex and dynamic field of procurement. This field includes contract administration, systems acquisition, logistics, service contracting, and procurement policy and law.

The Department of Public Administration also offers many institutes and seminars on special topics to managers in organizations.

M.P.F.M. in Public Financial Management

The Master of Public Financial Management program is designed for government employees who aspire to positions which require a more extensive knowledge of public financial management. This program addresses the needs of government employees at all levels—federal, state, and local—and employees in the not-for-profit sector. It provides students with an enhanced capability to deal with the complex problems of today's government and increased technical capability in problem solving, and exposure to the latest methods for better program evaluation and improved financial control.

By emphasizing the practical applications of concepts and principles in core courses, the program helps students develop the ability to deal with complex problems.

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Prior graduate course work and professional work experience are also considered in admission. Two letters of recommendation and an essay on career interests are required.

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate course work.
- Projects: Each student presents an oral and written report on the work completed in connection with the Projects in Managerial Problem Solving. The student will be expected to know the conceptual basis of the problem and to demonstrate a capacity to apply knowledge and to perform management functions effectively.

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.603 Management Science for Public Managers (3)
- 54.604 Public Program Evaluation (3)
- 54.605 Research Methods for Public Managers (3)
- 54.610 Public Management (3)
- 54.618 Management Workshop: Computer Applications for Managers (3)
- 54.630 Public Managerial Economics (3)
- 54.634 Accounting and Budgeting for Public Managers (3)
- 54.635 Public Finance (3)
- 54.637 Public Managerial Macroeconomics (3)
- 54.650 Leadership for Public Management (3)
- 54.693 Practicum in Public Management and Policy Studies (3)
- Two electives selected by students and their sponsoring organizations in such fields as governmental budgeting, auditing, accounting, procurement and government contracting, personnel management, political dynamics, management information systems, and management science. Other fields of concentration are also available.

Special Opportunities

With advance notice, the Department of Public Administration will develop and offer specialized courses for one or a group of federal agencies or local governments.

All core courses and the Practicum in Public Management emphasize applications and are developed by the faculty member in advance to be responsive to the needs, problems, and objectives of the students and their employer organizations.

M.S. in Procurement Management

Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation and an essay on career interests. GRE is desirable but not required. The GRE is required for full-time applicants who wish to be considered for a departmental honors award.

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate work

Students with the requisite professional experience may be exempted for six credit hours of the total requirement (see Special Opportunities below).

- One written comprehensive examination
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
 - 54.601 Methods of Problem Solving I (3)
 - 54.630 Public Managerial Economics (3)
 - 54.634 Accounting and Budgeting for Public Managers (3)

General Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.634 Accounting and Budgeting for Public Managers (3)
- Six credit hours from the following:
 - 54.618 Management Workshop: Computer Applications (3)
 - 54.630 Public Managerial Economics (3)
 - 54.632 Governmental Budgeting (3)
 - 54.661 Administrative Behavior (3)

Procurement Course Requirements

- 54.681 Principles of Procurement (3)
- 54.682 Federal Procurement Law (3)
- 54.683 Contract Administration (3)
- 54.684 Seminar in Procurement Policy (3)
- Six credit hours from the following:
 - 54.685 Materials Management and Purchasing (3)
 - 54.686 Cost and Price Analysis (3)
 - 54.688 Major-Systems Acquisition (3)
 - 54.689 Service Contracting (3)

Public Administration Electives

- Twelve additional credit hours from any 54.xxx numbered courses
- Internship: Preservice students about to begin their career participate in a supervised internship. An internship seminar, equal in credit to one course, relates on-the-job experience to current procurement

and administrative issues. The formal internship program is optional for students already employed.

Special Opportunities

A student who has performed successfully for several years as a manager in a supervisory role before admission to the M.S. in Procurement Management program may apply to the Chair of the Department of Public Administration to have the total program reduced by up to six credit hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program does not count toward this provision. Students seeking to use both the significant managerial experience clause and the transfer credit allowance are limited to a total of nine credit hours.

M.S.H.R. in Human Resource Development

The M.S.H.R. in Human Resource Development is a specialized course of study designed to educate students for specific professional roles in the human resource development field. The courses are usually offered on week-ends. Courses are tailored to provide advanced theory and technology in human resource development.

Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must possess two years of relevant professional experience in human resource development or related fields. Exceptions may be made for highly qualified applicants with many years of service and a record of exceptional accomplishment. Such candidates are admitted provisionally, and after completing four courses with a grade point average of 3.00 (out of 4.00) or better, may be advanced to full standing.

Majors

The Master of Science in Human Resources is taken with a major in Human Resource Development (HRD). The Human Resource Development major is designed for individuals pursuing careers in training, organizational development, and organizational research and consultation.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
 - 54.641 Methods of Problem Solving for Human Resource Development (3)
 - 54.642 Organization Dynamics for Human Resource Development (3)
 - 54.646 Consultation Skills for Human Resource Development (3)
 - 54.677 Introduction to Organization Development for Human Resource Development (3)

- A written comprehensive examination covering material in the major field of study
- As a prerequisite to a major in Human Resource Development, students must take a Human Interaction Laboratory or institute on Group and Personal Interaction

Course Requirements

Core Courses

- 54.640 Leadership for Human Resource Development (3)
- 54.641 Methods of Problem Solving for Human Resource Development (3)
- 54.642 Organization Dynamics for Human Resource Development (3)
- 54.677 Introduction to Organizational Development for Human Resource Development (3)
- Twenty-four credit hours chosen from the following Human Resource Development course options:
 - 54.643 Financial Management for Human Resource Development (3)
 - 54.646 Consultation Skills for Human Resource Development (3)
 - 54.647 Career Development for Human Resource Development (3)
 - 54.648 Training Design and Facilitation for Human Resource Development (3)
 - 54.649 Studies in Human Resource Management (3) (special sections)
The special sections of 54.649 are chosen from advanced offerings in Public Administration and Human Resource Development fields as specified each semester by the department: Building Effective Work Teams for Human Resource Development; Conflict Resolution for Human Resource Development; Skill Module for Human Resource Development; and International Human Resource Development. Other university and consortium courses taken as electives must be approved by the chair, Department of Public Administration.
 - 54.653 The Individual and the Organization (3)
 - 54.674 Practicum Research Project (3)
 - 54.675 Organizational Planning and Control for Human Resource Development (3)
 - 54.676 Politics of Administration for Human Resource Development (3)
 - 54.678 Legal Issues in Public Administration for Human Resource Development (3)
 - 54.679 Studies in Human Resource Development (3) (special sections)
The special sections of 54.679 are to be chosen from advanced offerings in the Public Administration and Human Resource Development fields as specified each semester by the department: Organization

Diagnosis and Intervention for Human Resource Development. Other university and consortium courses taken as electives must be approved by the chair, Department of Public Administration.

Certificates

Graduate Certificate in Organizational Change

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Certificate Requirements

Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of six credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.650 Leadership for Public Management (3)
- 54.661 Administrative Behavior (3)
- 54.654 Organization Diagnosis and Intervention (3)
- 54.655 Consultation Skills for Managers (3)
- One of the following:
 - 54.618 Management Workshop: Group and Personal Interaction (3)
 - 54.652 Building Effective Work Teams (3)
 - 54.653 The Individual and the Organization (3)

Graduate Certificate in Procurement Management

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Certificate Requirements

Eighteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of six credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.681 Principles of Procurement (3)
- 54.682 Federal Procurement Law (3)
- 54.683 Contract Administration (3)
- 54.684 Seminar in Procurement Policy (3)
- Two from the following:

- 54.685 Materials Management and Purchasing (3)
- 54.686 Cost and Price Analysis (3)
- 54.688 Major-Systems Acquisition (3)
- 54.689 Service Contracting (3)

- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)

Ph.D. in Public Administration

Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a grade point average of 3.20 in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Policy Analysis, and Public Administration

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of forty-eight hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination on the major area at the end of the second semester of study.
- Students take written comprehensive examinations in Public Administration and any one of the remaining major areas. They master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

Two of the three major areas must be offered by the School of Public Affairs. As long as this requirement is satisfied, students seeking the Ph.D. in Public Administration may include as a comprehensive or non-comprehensive area any Ph.D. field offered by any other teaching unit at A.U., subject to the approval of the SPA Director of Doctoral Programs.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), and 53.614 Research in Political and Administrative Behavior (3).
- Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students can choose research projects within one of the major areas or they can select a

Graduate Certificate in Public Financial Management

This certificate program is designed for government employees interested in expanding their knowledge and practical skills in public financial management. The main objective of the program is to provide the student with a working knowledge of basic financial management techniques that are relevant to public sector financial operations.

Admission to the Program

Open to students with a bachelor's degree from an accredited college or university.

Certificate Requirements

Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of six credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.610 Public Management (3)
- 54.634 Accounting and Budgeting for Public Managers (3)
- 54.635 Public Finance (3)
- 54.688 Major-Systems Acquisitions (3)
- 54.601 Methods of Problem Solving I (3)

With approval of the Department of Public Administration, course substitutions may be made in this certificate program.

Graduate Certificate in Public Management

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Certificate Requirements

Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of six credit hours during each twelve-month period until the program is completed.

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.616 Legal Issues in Public Administration (3)

research specialization from one of the other graduate fields within the school.

Each student prepares a research proposal for the dissertation project. It is the responsibility of the student to secure the agreement of a School of Public Affairs full-time tenured or tenure-track faculty member to serve as the chair of his or her dissertation committee. One of the two other members of the committee may be from outside the School of Public Affairs. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty. The committee and the SPA Director of Doctoral Programs (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of twelve credit hours of directed study, including the research seminar. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the dissertation committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time tenured or tenure-track faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to present an acceptable dissertation or dissertation proposal within the time limit allowed for completing the doctorate, or does not successfully complete the oral defense, his or her candidacy may be terminated at that time.

Course Requirements

- Three proseminars: 53.710 Seminar in American Politics (3), 53.720 Seminar in Policy Analysis (3), and 54.710 Seminar in Public Administration (3)
- Two additional courses in each of the two written comprehensive areas (some areas may require three courses beyond the proseminar, rather than two)
- An additional course in the non-comprehensive area
- Three courses in research design and methodology: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), and 53.614 Research in Political and Administrative Behavior (3)
- Remaining twelve (or fifteen) credit hours on the dissertation, including the research seminar 53.799

Washington College of Law

Dean Elliott S. Milstein

Deputy Dean Andrew F. Popper

Associate Dean for Student Affairs Edwin R. Hazen

Associate Dean for Institutional Advancement Paul P. Purta

Assistant Dean for Finance and Administration Joanne C. Lawton

Director of the Law Library Patrick E. Kehoe

Director of Clinical Programs Robert D. Dinerstein

Director of Graduate International Legal Studies Claudio M. Grossman

Director of Woman and the Law Program Ann C. Shallack

Overview of the Law School

The Washington College of Law was founded in 1896. It has a full-time faculty of 40 and a student body of approximately 1,000. The law school combines a rigorous and challenging atmosphere for legal studies with a highly personal approach to teaching.

The focus of the curriculum is on the methodology, practical skills, and theories fundamental to the practice of law. This is carried out through a wide range of traditional course offerings, supplemented by an extensive clinical program, simulation courses, and an international law program. These educational offerings are complemented by the vast legal network of federal agencies, courts, regulatory commissions, international organizations, and law firms present in Washington.

Legal Study in Washington

The American University Washington College of Law is located in the northwest section of the city a short distance from Congress, the Supreme Court, the United States District Court and Court of Appeals, and the Maryland, Virginia, and District of Columbia courts. Washington is the

center of all federal regulatory process, and is the principal home of every major federal agency, such as the Securities and Exchange Commission, the Federal Communications Commission, the Internal Revenue Service, and the Federal Trade Commission. Washington is also the base for U.S. cabinet-level departments, for example, the Department of Energy, the Department of Education, the Department of Justice, and other agencies, all of which perform functions critical to the federal system and contribute to an environment for legal education unparalleled outside this city. Accordingly, judicial, executive, and legislative internships form an integral part of the legal education of many of our students. In addition, Washington is the seat of the world's principal intergovernmental financial institutions: the World Bank, the International Monetary Fund, and the Inter-American Development Bank are here. So, too, are the Organization of American States and the International Telecommunications Satellite Organization. Private or nongovernmental organizations, among them Amnesty International and the International Human Rights Law Group, have offices in Washington, and a majority of the world's leading international law firms can be found in this city.

Taking advantage of this natural setting for study and work, the law school offers many unique courses taught by its full-time faculty and by specialists who are members of the adjunct faculty. Field components are available in various courts and government agencies, and are carefully supervised by faculty members and designated field supervisors. For second- and third-year students interested in part-time law-related jobs, the Career Planning and Placement Office coordinates requests for law student employment from law firms, corporations, courts, and government agencies. Further, the law school offers a unique training program in federal regulatory process which has a separate lecture faculty of forty-five top-level officials from the government and private sector.

The Academic Program

The American University law school has a strong national and international substantive focus, offering a broad

range of courses in addition to the basic program necessary for state bar examinations. The Legal Clinic operates four clinical programs, each of which involves students providing representation, under close faculty supervision, of real clients with pending legal problems. Students have responsibility for every phase of the cases, from the initial client interview through the trial or appeal. The four programs include the Criminal Justice Clinic, in which students spend a semester prosecuting and a semester defending criminal cases; the Woman and the Law Clinic, in which students represent women in abuse and neglect cases; the Public Interest Law Clinic, in which students represent clients before federal administration agencies; and the Appellate Advocacy Clinic, which involves representation before state and federal appellate courts. Beyond the classroom, the clinical program, and field placements at federal, state, and local agencies, courts, and legislatures, the academic offerings are enriched by an extensive independent study research program allowing for intensive faculty-student work on complex legal research projects. Finally, *The American University Law Review*, *The American University Journal of International Law and Policy*, and *The American University Administrative Law Journal* provide opportunities for students to develop expertise in traditional legal writing and research.

The basic first-year classes are taught using case analysis and dialogue as well as the problem method. First-year students take an intensive course in legal research and writing taught by attorneys from leading law firms or government agencies. Upper-class courses are mostly elective and include a wide variety of teaching styles and formats. The academic program leading to the Juris Doctor degree is designed to allow students to develop special skills in public law, business and commercial law, international law, property and land use, and related fields. In addition to the Juris Doctor program, the law school offers a Master of Laws (LL.M.) in International Law and participates in three joint degree programs: the J.D./M.A. in Law and International Affairs, the J.D./M.B.A. in Law and Business, and the J.D./M.S. in Law and Justice. The LL.M. in International Legal Studies permits specialization in one of three areas: international trade and banking; international protection of human rights; and international organizations.

These programs are all greatly enhanced by the availability of the many excellent research law libraries which are located in the city of Washington and which comprise resources unmatched elsewhere. The Washington College of Law's own Alvina Reckman Myers Law Library contains a book collection of some 250,000 volumes and provides computerized legal research facilities for students and faculty using its LEXIS and WESTLAW terminals. The law library is the research base for the entire academic program, serving students and law faculty.

Student Body

Students at the law school come from several nations, more than forty states, and 250 undergraduate colleges and universities. Approximately half are women. There are a number of law students who have extensive work experience or advanced degrees in other disciplines. Students participate in numerous organizations, including the *Law Review*, the *Journal of International Law and Policy*, the *Administrative Law Journal*, the Moot Court Program, the Student Bar Association, the Black Law Student Association (BLSA), the Hispanic Law Student Association, the Asian Pacific-American Law Student Association, the Women's Law Association, and the International Law Society. The students are actively involved in the governance of the school and sit on most faculty committees.

Admissions

The law school receives approximately 6,300 applications for about 300 places in the J.D. program entering class. The Admissions Committee uses a rolling admissions system and notifies applicants as decisions are made. There are limited places for transfer and unclassified students. Financial aid, based on need, is available in the form of scholarships and loans. Second- and third-year students with good academic records are eligible for Deans' Research and Teaching Fellowships. Specific requests for information regarding admissions, financial aid, or programming should be sent directly to the Washington College of Law, The American University, Washington, D.C. 20016.

Interdisciplinary Studies

Academic Counselors in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs.

Academic counselors and a faculty coordinator in each dean's office counsel students in the formation of undergraduate and graduate, formal and informal interdisciplinary majors. Up-to-date information on all interdisciplinary activities can be obtained from the appropriate undergraduate or graduate dean's office.

B.A. or B.S. in Interdisciplinary Studies

This program is designed for students who wish to construct their own major programs of study in accordance with their needs, capabilities, and interests. The initiative in formulating an interdisciplinary major is left to the student. The student has the responsibility to determine the central concept around which the program is constructed and to formulate in writing a list of all courses—major, related, and tool—which are to serve as requirements for the program.

The student must secure the advice and approval of three faculty members: one major adviser, who must be a full-time faculty member, and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student for the rest of the student's undergraduate career. The two sponsors will assist the major adviser in areas outside his or her field.

Admission to the Program

As a rule, final written application to the program and interviews should be made no later than the first semester of the junior year and no earlier than the second semester of the freshman year. Students must have at least a 2.50 grade-point average to be accepted. A student applies for permission to undertake an interdisciplinary major to the dean of the school or college in which he or she is enrolled. If the focus of the interdisciplinary program requires a

change of college or school, the student must affiliate with the appropriate division.

An outline of the student's program submitted for approval must include:

1. A statement of the central concept of the major and an explanation of its interdisciplinary character.
2. A statement demonstrating that existing programs do not satisfy the educational needs or vocational goals of the student.
3. An outline of the academic requirements of the major, including a list of all required courses and a tentative schedule for their completion. Independent study courses must be outlined if included in the proposal.
4. A Declaration of Major form, which must specify the name of the major and whether a B.A. or a B.S. degree is to be awarded.

Majors

Individually designed majors focused on an interdisciplinary theme.

University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better including six credit hours of independent study or senior seminars and thirty-six hours selected to form an academically sound, unified, and well-defined program

The area of concentration may not be the focus of any current degree program offered by The American University, and the central concept must be interdisciplinary. A random collection of courses taken from several departments does not constitute an acceptable interdisciplinary program. Each program should be designed to give the student the fundamental skills and background knowledge relevant to the specific interdisciplinary area. Courses which a student has already taken at The American University, or which the university has accepted in transfer, may be counted as part of the interdisciplinary major requirements when they are clearly within the proposed interdisciplinary field.

- Six credit hours in two independent study courses or senior seminars under the direction of the major adviser constructed to unite the various aspects of the interdisciplinary program. With the adviser's approval, the student may substitute an internship course under the adviser's direction, a 500-level seminar, or cooperative education experience for one of the two special courses.
- Twenty-seven of the remaining thirty-six credit hours must be upper level (as defined by the teaching units that offer them), and it is usually advisable to include at least two 500-level courses, although in certain cases this may not be possible.

A maximum of eighteen credit hours of work completed prior to the semester in which application is made may be included in the program.

University Honors Program

Departmental Honors coordinators advise students in the University Honors Program regarding honors options. See the section on the University Honors Program in this catalog for further details.

See Also: B.A. in Communication, Legal Institutions, Economics, and Government; and B.A. in Law and Society (School of Public Affairs).

Minor in Interdisciplinary Studies

Individually designed minors focused on an interdisciplinary theme

Admission to the Program

Admission to an interdisciplinary minor is governed by the same considerations as stated above for interdisciplinary majors except that approval is required by two rather than three faculty members. The academic coordinator for

interdisciplinary studies is available to assist students in formulating interdisciplinary minor programs.

Requirements

- A total of twenty-four credit hours of course work selected to form an academically sound, unified, and well-defined program. The area of concentration may not be the focus of any current degree program offered by The American University, and the central concept must be interdisciplinary
- Nine of the twenty-four credit hours must be taken at the 300 or 400 level

In addition to the twenty-four credit hours of course work, the student may unify the minor by taking three credit hours of independent study or research, senior seminars, or cooperative education experience focused on the central concept of the minor.

No more than six credit hours of courses used to satisfy the distributive requirement may be used to satisfy the requirements of the interdisciplinary minor. Courses used to satisfy the university English requirement may not be used to satisfy the requirements of the interdisciplinary minor.

See Also: Minor in Russian Studies (Language and Foreign Studies).

M.A. or M.S. in Interdisciplinary Studies

Admission to the Program

Graduate students interested in constructing an interdisciplinary master's program must first be admitted to a school or college or teaching unit of the university. In applying for admission, prospective graduate students may inform the faculty and teaching units of their interdisciplinary goals. In this manner the student unofficially explores the possibilities of obtaining faculty support for the desired interdisciplinary program.

Graduate students interested in this program should complete a major program form available in the office of the dean of the school or college. This completed form, along with a written statement of the concept of the program, and the letter of admission to a school or department of the university will serve as the admission packet for entrance to the program. Once this packet receives the approval of the dean of the school or college to which the student has been admitted, it will serve as the official record of the student's interdisciplinary master's program.

All programs must have the approval of three faculty members, at least one from each of the two or more disciplines involved in the interdisciplinary field. The responsibility for securing the advice and signature of the three faculty members is left with the student in consultation with the office of the dean. The student should select one of the faculty advisers, who must be from the admitting unit as the primary adviser.

Majors

Individually designed majors focused on an interdisciplinary theme

Degree and Major Requirements

- A total of thirty credit hours of graduate work for the master's degree, including six credit hours of research credit either in writing a thesis or in completing special research seminars

At least twenty-four of the thirty credit hours, including the thesis or research sequence, must be completed in residence.

The individually designed interdisciplinary master's program allow graduate students to design their own M.A. or M.S. programs built around a central theme that cuts across various disciplines. Every program must form an academically sound area of concentration defined by a central concept. The area of study must not duplicate the program of any master's degree offered by the university. The central concept must be explained in a written statement attached to the application for approval of the master's program.

- One comprehensive examination

The subject and scope of the examination is determined by the student and advisers at the time of initial approval of the interdisciplinary field. A statement detailing the provisions for the examination (who will draw it up, areas covered, and who will evaluate it) must be submitted with the application to the office of the dean of the college. Unless otherwise indicated, the faculty who approve the program take responsibility for drawing up, administering, and evaluating the comprehensive examination.

- Thesis option: six credit hours of thesis research

Nonthesis option: two research seminars for six credit hours at the 500 level or above with a grade of B or better. These research-oriented courses should serve to unify the elements of the program.

Students must specify which option has been chosen and indicate which courses will be taken (for the non-thesis option), or the subject of the thesis and members of the thesis committee (for the thesis option).

See Also: M.S. in Toxicology (Department of Chemistry).



Continuing Studies

Education and training for adults at The American University is a continuous, integrated effort which meets the needs of members of the local, national, and international communities.

The American University serves the educational needs of adults through full- or part-time study by helping them determine realistic personal and professional educational goals, enrich their knowledge, and improve their technical and professional qualifications. To this end, the university designs and implements academically stimulating programs for lifelong education and learning through evening, off-campus, and contract educational programs, and through certificate programs and noncredit seminars. Adults may earn undergraduate and graduate credit without formal admission to degree status. If admitted to degree status, adults earn their degrees in the same fashion as full-time students.

Return-to-School Programs

The American University has a long-standing commitment to serve the educational needs of adults. The university has designed its Return-to-School Programs for adults who wish to begin or resume work towards a bachelor's degree, for adults who may earn credits for life experience, and for those who wish to pursue noncredit professional development opportunities. Evening orientations are held at least once a month both on campus and at several off-campus locations. For an orientation schedule, call the Office of Continuing Studies, (202) 885-3900.

Credit for Life Experience

The Assessment of Prior Experiential Learning (APEL) program enables adults to earn undergraduate academic credit for life experience gained through work, volunteer activities, military service, travel, and community service. The APEL program assists adults in translating their years of experience into college credit. Students describe, analyze, and document their learning experiences. University faculty members assess the resulting portfolio and award academic credit based on the depth and quality of the presented work. Students can earn from six to thirty credit

hours of elective credit through this program (up to the equivalent of one year of full-time study). Up to half of these credits but no more than twelve may be applied toward the university residency requirement. The APEL program is designed for adults who have been out of high school for at least eight years.

The APEL curriculum consists of two sequential courses; 23.205 Issues, Ideas, and Words is a literature course focused on critical reading, effective writing, and analytical thinking. This course provides adults an important introduction to the skills necessary for success in the preparation of their portfolio and subsequent university course work. During the second course, 21.240 Documentation and Analysis of Field Experience, students identify, document, and analyze their experiences and produce the portfolio which is assessed by a faculty member.

For further information about the APEL program call (202) 885-3960 or write to the Assistant Director, Return-to-School Programs, Office of Continuing Studies, Nebraska Hall, The American University, Washington, DC 20016.

Community Studies

The College of Arts and Sciences and the Office of Continuing Studies offer an undergraduate Certificate in Community Studies to new adult students admitted to the Community Studies Program. After completing the Certificate, students usually continue on to fulfill the requirements for an Associate in Arts, bachelor's degree, or both. The program draws together the resources of an urban university and the community, emphasizing traditional academic disciplines. All courses are fully accredited, transferable, and open to all university students.

The curriculum is designed to meet the educational needs of adults who seek professional or personal advancement through full- or part-time study. Academic and diagnostic counseling services are available to assist students in planning their academic programs. An orientation and study skills workshop is available. The required curriculum meets the needs of students who have been out of school for a number of years.

This certificate is often an ideal entry point to the university for those students who are members of population groups underrepresented in U.S. colleges and universities. The program places emphasis on adults working together to meet university requirements while receiving support from a broad range of university services. These services will vary depending on individual need but may include tutoring, structured study groups, study skills workshops, and writing workshops.

Community Studies students may be eligible for financial assistance. Preference in awarding the assistance will be given to students who demonstrate need, who are residents of the District of Columbia, who are members of populations underrepresented in U.S. colleges and universities, and who are members of the first generation of their family to attend college.

For further information on Community Studies, the Certificate program requirements, and financial assistance, contact the Return to School Program Office at (202) 885-1260.

Projecto Latino

Projecto Latino is a pre-college, noncredit program that assists members of the metropolitan Hispanic community to prepare for university-level studies. The program focuses on development of critical reading, writing, and study skills necessary for academic success. Attention is paid to students' career development as well as to their adaptation to university culture.

For more information call (202) 885-1260 or write to Coordinator, Projecto Latino, Office of Continuing Studies, Nebraska Hall, The American University, Washington, D.C., 20016.

Associate in Arts (A.A.)

This program is designed to serve the educational needs of high-school graduates who seek professional or personal advancement through either full- or part-time study.

Admission to the Program

Any student admitted to degree status at The American University is eligible for admission to this program.

University Requirements

- A total of sixty credit hours with grades of C or better.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of twenty-four credit hours to include one foundation course in each of the five curricular areas and one second-level course in three of the five curricular areas, in an approved sequence.
- No more than six credit hours may be taken in the same discipline.

Bachelor of General Studies (B.G.S.)

Designed to serve the educational needs of adults, the Bachelor of General Studies program allows students to construct a major with course work from two fields of study. Students enrolling in the program typically have transferrable college credit or have gained life experience credit through The American University's Assessment of Prior Experiential Learning (APEL) program. (For more information, see "Credit for Life Experience" above.)

Admission to the Program

Any student admitted to degree status at The American University is eligible for admission to this program. Each field of study must be approved by the appropriate academic unit. The signature of the associate dean for undergraduate affairs of the College of Arts and Sciences is required for approval of the final program of study. Persons interested in the program should seek advice from the University Programs Advisement Center at (202) 885-2500.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas in an approved sequence.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-six credit hours with grades of C or better.
- Two declared fields of study, each consisting of at least eighteen credit hours from a single teaching unit of the university and including at least nine credit hours in each field at the 300 level or above. Specific courses for each area of concentration are selected in consultation with an academic or faculty adviser.

Mobility Clause Option

Students in this program may exercise the Mobility Clause option. This option allows the student who moves to a location more than seventy-five miles from the university campus the opportunity to complete the degree program at an approved institution and still receive an American University degree. The mobility clause requires that at least forty-five credit hours must be completed at The American University, eighteen of which must be in courses at the 300 level or above with at least nine credit hours at the upper level in the primary area of concentration and nine credit hours at the upper level in the secondary area of concentration. A retention fee must be paid to

The American University for each semester during which the student pursues the program at another institution or is inactive. Call the University Programs Advisement Center at (202) 885-2500 for further information.

The American Association of State Colleges and Universities, acting on behalf of the American Council on Education and Department of Defense, has designated The American University as a Serviceman's Opportunity College (SOC).

Certificate Programs

A certificate awarded by The American University at any level is an emblem of professional achievement widely recognized by corporate and government employers. Certificate programs consist of a prescribed sequence of credit courses concentrating in particular career fields. Most certificate programs consist of the core courses required for related degree programs. A maximum of eighteen hours of academic credit earned may be applied later towards a degree. A student's acceptance into a nondegree certificate program, however, does not in any way assure later acceptance into a degree program. The Office of Continuing Studies offers certificates in cooperation with the colleges and schools of The American University.

To be eligible for enrollment in an undergraduate certificate program, students must have completed high school or the equivalent. Eligibility for a graduate certificate requires completion of a bachelor's or advanced degree. A student with a master's degree may enter a certificate program at the advanced graduate level.

The following certificates are available for students enrolled in nondegree status.

Computer Science and Information Systems

Graduate Certificate in Information Systems

For more information, see the Department of Computer Science and Information Systems programs description.

Economics

Graduate Certificate in Applied Economics

For more information, see the Department of Economics programs description.

Language and Foreign Studies

Undergraduate Certificate in Translation in
French, German, Russian, or Spanish

Graduate Certificate in Translation in
French, Russian, or Spanish

Certificate in Teaching English to
Speakers of Other Languages

For more information, see the Department of Language and Foreign Studies programs description.

Performing Arts

Graduate Certificate in Arts Management

Graduate Certificate in Dance

For more information, see the Department of Performing Arts programs description.

School of Public Affairs

Graduate Certificate in Organizational Change

Graduate Certificate in Procurement Management

Graduate Certificate in Public Financial Management

Graduate Certificate in Public Management

For more information see the Department of Public Administration programs description.

Statistics

Undergraduate Certificate in Applied Statistics

Graduate Certificate in Applied Statistics

For more information, see the Department of Mathematics and Statistics programs description.

Professional Development

Graduate certificate programs can be designed to meet specific career or professional development needs. In conjunction with academic and faculty advisers, students develop a proposed sequence of courses which must be approved by the appropriate school or department. For information on these certificate programs, contact an academic adviser in the University Programs Advisement Center at (202) 885-2500.

Center for Professional Development

The Office of Continuing Studies and its Center for Professional Development offers credit and noncredit programs designed to meet the career and professional needs of adults. Programs offered include special certificate programs, institutes, and seminars.

Master of Science Specializing in Human Resource Development (M.S.H.R.)

The American University and the NTL Institute for Applied Behavioral Sciences jointly offer a weekend Master of Science in Human Resources (M.S.H.R.) with a major in Human Resource Development. The program is designed for mid-career human resource professionals pursuing positions in organization development, training, consultation, and research. To qualify for admission, applicants must have a bachelor's degree with at least a B average in the last 60 hours. In instances where potential students would like to strengthen their academic files, GRE or GMAT scores may be submitted. In addition to their academic credentials, applicants must show demonstrated professional growth and development in their careers for a period of two years.

The teaching method blends a conceptual and experiential approach to organization behavior. Courses meet once per month for a three-day weekend (Friday, Saturday, and Sunday) with the exception of two one-week long courses, one held at the NTL Conference Center in Bethel, Maine, and the other held in Washington, D.C. The weekend classes are held at The American University.

Classes begin in June and January each year. (For more information, see the School of Public Affairs degree programs description.) To request a brochure describing this program, call the Center for Professional Development in the Office of Continuing Studies at (202) 885-6206.

Master of Arts in Journalism and Public Affairs

The School of Communication offers a weekend part-time graduate program leading to a Master of Arts degree in Journalism and Public Affairs. The program accommodates working adults interested in print journalism and the reporting of public policy issues. Participants in the program will develop an understanding of the ethics, credibility, legal aspects, and economic realities of the American media while mastering and refining the reporting, writing and editing skills necessary to excel professionally. Students work with faculty members who are experts in the field and who possess a genuine interest in their students' progress and professional goals. Courses required for this option meet on Saturdays and can be completed in twenty months. For more information about this program contact the University Programs Advisement Center (UPAC) at (202) 885-2500.

Certificate in Management: An Executive Education Program for Emerging Leaders

This leadership program is designed for upper- and middle-level managers who wish to develop themselves for higher levels of responsibility within their organizations. The program is full-time for two weeks. Program participants use the month between classes to process learning, collect feedback, and gain focus for the final week of the program.

Participants focus on the development of leadership and decision making skills in a learning environment that emphasizes projects linked to each individual's work environment. Participants work with outstanding faculty from the fields of business, government, and international development on the campus of The American University. At the completion of the program, participants will receive a Certificate in Management. For more information or to apply to the Certificate in Management program, consult the Center for Professional Development at (202) 885-6206.

Seminars and Workshops

The Office of Continuing Studies, in conjunction with the various schools of the university, also offers a variety of seminars and workshops.

The Office of Continuing Studies' Center for Professional Development offers a seminar on intercultural relations which prepares managers and human resource specialists in areas of cross-cultural management, communications, and negotiations. For more information call (202) 885-3966.

In cooperation with the School of Communication, the Office of Continuing Studies offers an intensive seminar in film and video, "Breaking into Hollywood." Led by well-known and respected professionals who are at the center of the Hollywood entertainment industry, the workshop offers practical information on getting into the business, whether it is to produce, direct, write, or work in production. For more information contact the University Programs Advisement Center at (202) 885-2500.

Off-Campus Offerings

At the Workplace

Corporations, government agencies, and associations can take advantage of American University programs offered at the workplace. Options include certificate and degree programs or professional development workshops. The curriculum may be tailored to meet training needs. Scheduling is flexible for the convenience of employees, and contract programs are particularly cost-effective for companies which provide tuition reimbursement. For more information call the Office of Contract Programs at (202) 885-3990.

In the Community

The university offers certificate and degree programs and courses throughout the Washington, Maryland, and Virginia areas. Programs are designed to meet the educational and personal needs of students who wish to attend the university at a location near their homes or places of employment. Programs and courses are also designed for organizations that want to encourage the educational or professional development of their employees.

Noncredit Programs

Certificates and Seminars

The American University's noncredit programs are designed for professionals who are interested in expanding their knowledge or skills through noncredit certificates and seminars. Certificate programs offer a comprehensive and varied curriculum relevant to professional work in child care, volunteer management, and cross-cultural relations. Other programs—in computers, communications, cross-cultural communications, and foreign languages—offer students the opportunity to improve skills to increase effectiveness and expand career options. For more information about the noncredit certificates and seminars, call the Office of Continuing Studies at (202) 885-3900.

Institute for Learning in Retirement

The American University has become nationally recognized for its leadership in providing continuing learning opportunities for older adults through its affiliation with the Institute for Learning in Retirement (ILR). In 1982 the ILR was established as a membership organization for persons in the metropolitan Washington, D.C., area who want to remain intellectually active in their later years. The program has grown rapidly to its present size of 400 members.

The ILR offers a unique opportunity for persons who are over the age of 50, retired or semiretired, who wish to continue their learning at the university level. Members of the institute are men and women with varied career backgrounds. They elect a governing council and, through committees, design their own curriculum of noncredit courses and plan a variety of special activities, including lectures, tours, and special interest groups.

The curriculum consists of two ten-week terms, fall and spring, offering about fifty study groups each term. Study groups meet for two hours once a week and cover a wide range of subjects, from foreign languages, history, and current events to music, art, and philosophy. Study group leaders are members of the ILR or volunteers with special

expertise. Winter and summer intersessions provide additional opportunities for learning.

An annual membership fee entitles members to register in study groups without additional cost (except in certain special cases) and to participate in all other ILR activities. It also provides university privileges, including parking at

a special rate, access to the library and dining hall, and attendance at lectures and cultural events for free or at reduced rates. Information about membership is available by calling the Institute for Learning in Retirement at (202) 885-3920.



Jorge Somarriba, Community Studies '88, in front of his mural, "Youth of the World."



The Butler Pavilion houses university offices, the campus store, and convenience shops.

Special University Programs

Cooperative Education Program

In order to integrate the academic curriculum with professional training, the Career Center's Cooperative Education Program enables students to earn elective credit for field experience related to their education and career goals. Participants may include one or more periods of work experience in their programs of study. Co-op placements are usually paid positions and can be full or part time. Positions are with businesses; local, state, or federal governments; or community and social-service organizations.

Full-time faculty from nearly all university departments serve as faculty supervisors for the cooperative education program. Faculty guide and evaluate the co-op students' experiential learning process.

Cooperative education allows students to test skills and academic learning in the world of work; it also provides for entirely new learning opportunities. Co-op experiences enable students to explore career options, make career decisions, and prepare for entry into the professional job market. Personal development, acquisition of independent learning skills, and a balanced education are significant benefits to students participating in cooperative education.

Admission

The program is open to all matriculating undergraduate and graduate students. Applicants must be in good academic standing and must obtain approval from appropriate academic advisers. Students must complete a full year as freshmen or a full semester as transfer or graduate students before they are eligible for placement. However, they may apply to the program at any time. Additional specific admission criteria may be stipulated by schools or departments.

Students must attend an orientation session, complete application forms, and obtain approval signatures before the program's deadlines: April 30 for the summer semester, July 31 for the fall semester, and November 30 for the spring semester. Working with a co-op coordinator, qual-

ified candidates are referred to suitable employers for interviews. Students register in the program once they are selected for a position.

Application to the program does not imply a guarantee of placement, nor does it obligate students to accept offers of employment. However, once hired under the auspices of the program, a student must complete all employment and academic obligations agreed to at the time of registration, unless a specific written release is obtained from the director of cooperative education on the recommendation of the faculty supervisor.

Degree Credit

Credit earned in the Cooperative Education Program may be applied as general elective credit to bachelor's and graduate degree programs. Undergraduate students earn three to six credit hours for each assignment. Undergraduate students who wish to earn more than six hours of credit for a single assignment must petition for approval from the appropriate faculty member. Graduate students must be placed in jobs specifically related to their major fields and may earn up to six credit hours in the program, subject to the approval of their academic advisers.

All jobs are reviewed and approved for credit by faculty supervisors. The credit value depends on the duration of the work periods. Students are required to demonstrate what they have learned by means of written journals, papers, reports, portfolios, conferences, or seminars. Specific requirements are set by faculty supervisors and are tailored to each individual's experiences.

Students working full time under the program are considered full-time students by the university, and they may take only two additional courses during the work term.

Enrollment

Students enroll in xx.392 Cooperative Education Field Experience (3-9) or xx.692 Cooperative Education Field Experience (3-6) during work-placement periods.

Full-time placements may be for six-month periods (July through December or January through June) or for four-month periods (September through December, January through April, or May through August).

Special Programs

Cooperative Education College Work-Study Program

This program provides off-campus placements to undergraduate and graduate students who qualify for federal financial aid. Applicants must complete an American University financial aid application and the Financial Aid Form (FAF). College work-study funds are awarded to subsidize salaries for co-op positions offered by a variety of nonprofit private and public employers serving in the public interest.

Cooperative Education in the Federal Government

These experiences offer both undergraduate and graduate students special eligibility for noncompetitive appointments to career positions on successful completion of their degree programs.

International Cooperative Education

Many cooperative education opportunities abroad are available. Students should have working knowledge of the language of the country in which they expect to be placed. Students also attend a seminar on working abroad. Several months lead time is essential to coordinate these placements.

Washington Semester Program

Established in 1947, the Washington Semester Program provides intercollegiate programs for study in Washington of various aspects of public affairs. More than 350 students from over 200 colleges and The American University meet each semester to pursue full programs of seminars with decision makers and people involved in the policy process. Students also undertake an internship in their field of interest and complete either an intensive research project or a course elective from regular university offerings.

The Washington Semester in American Politics: National Government or Public Law

This is the original program and covers the American national governmental and political system as a whole. Institutions covered include the Congress, the executive branch, parties and interest groups, the courts, and the communications media; certain units focus on public law. The program is taught by members of the faculty of the School of Public Affairs.

The Washington Semester in Art and Architecture

The Washington Semester in Art and Architecture is taught by faculty from the Department of Art. The Art and Architecture Semester introduces students to the important issues and concerns of art and architecture, issues such as the function of an art museum, government vs. private support of the arts, and architectural preservation. Discussions with museum directors, curators, exhibit specialists, and visits to museums and Washington, D.C.'s, architectural treasures allow students to study the cultural history of the nation through its art, architecture, and public monuments.

The Washington Semester in Peace and Conflict Resolution

The goal of the Washington Semester in Peace and Conflict Resolution is to allow students to participate in building a global society based on peace, freedom, justice, and a diminished level of violence. Taught by faculty from the School of International Service the semester includes conflict-resolution theory, history, and methodologies. The students are also introduced to the skills needed for non-violent, nonexploitative conflict resolution. The semester is designed to broaden the students' understanding of the forces that move a society—either toward a heightened level of violence and exploitation or toward positive social change.

The Foreign Policy Semester

Originated as the Washington International Semester in the fall of 1970, the Foreign Policy Semester is taught by faculty from the School of International Service and, like the American politics semester, is open to students from both The American University and member colleges. The Foreign Policy Semester provides students with an opportunity to observe and study the manifold governmental, international, and private activities which contribute to the United States' position in world affairs.

The Washington Economic Policy Semester

Taught by faculty from the Department of Economics, this is an intensive examination of the macro and micro dimensions of policy making in the national capital. The program is designed for students with an interest in practical as well as theoretical matters. The focus is on stabilization policy in all of its aspects—theoretical, practical, and political; environmental and energy economics; the international economy and recent developments in the international monetary field; and the effects of the multinational corporation. Additional topics include tax policy, poverty and the attempts to reduce it, antitrust actions and the role of big business, and urban economic policy. The program is open to students from The American University and member colleges of the Washington Semester Program.

The Washington Justice Semester

Taught by faculty from the Department of Justice, Law and Society, this program provides a realistic picture of the processes of the criminal justice system. The program focuses on the interrelationships of the institutions operating in the criminal justice system (law enforcement, courts, corrections); the various occupational specialties; the problems of civil justice systems; the role of research; and the local, national, and international levels of the justice system.

The Washington Journalism Semester

The School of Communication offers this intensive study of journalism in Washington, D.C. The news stories and issues that make up Washington journalism and the people and institutions that cover them are the focus of this one-semester program. The program is open to students from The American University and member colleges of the Washington Semester Program.

The Washington Summer Internship Program

Students from colleges and universities across the United States are offered the opportunity to gain career-related, on-the-job experience through working and learning in the nation's capital. Students intern with a professional or government office for five days a week and attend an academic course in conjunction with the work experience. The program is open to students who are not currently enrolled at The American University. American University students should consult their academic departments concerning summer internship opportunities. The program is offered every summer. This course carries three undergraduate or graduate credit hours.

The Pre-College Program for High School Students

High school students from across the country are offered the opportunity to earn college credit and experience by studying in one of four fields: American Government in Action, Media in America: Print and Broadcast Journalism, U.S. Foreign Policy, and Justice and Law in America. The program of choice is a three-week long residential program providing students with early exposure to college life. The curriculum includes daily seminars with decision makers and leaders from their field of study as well as lectures by full-time American University faculty. Upon successful completion of the course, students may have an official American University transcript sent to the college(s) of their choice. Each three week program is offered every summer and can be taken with or without credit.

Study Abroad Programs

Study abroad programs offered through the American University provide students the opportunity to interact with public officials and political leaders through seminars. Programs in London, Brussels, Vienna, Madrid, Budapest, Prague, Buenos Aires, Mexico City, and Santiago offer internship opportunities in houses of parliament, government agencies, corporations, and other political and social organizations. Programs in Rome, Paris, Poland, Copenhagen, and Beijing allow students to select from a variety of liberal arts courses. Some of these programs may be used for the second-level course requirement in the General Education Program.

The London Semester

The semester in London is offered every fall and spring. The program, which is patterned on the Washington Semester model, focuses on British political and economic institutions through seminars with decision makers and observers of British politics. In addition to the seminars, the program includes an internship component, a course on British theatre, media, and living with English host families. Through seminars, class discussions, lectures, and focused readings, the program provides a perspective of British society, politics, economics, and culture. Seminar topics include issues in British politics and society, Parliament, the cabinet and ministries, political parties, interest groups, the media, and the judicial process. Stu-

dents in this program are accompanied by a member of the American University faculty.

The Rome Semester

The Rome program offers a semester or year of study with emphasis on European and Italian subjects. All courses are taught in English and are offered during the fall and spring semesters. The program provides instruction in socio-economic and political systems, art and architecture, history, and culture. Students also benefit from cross-cultural interactions with Italian student groups. Classes are frequently conducted in political party headquarters, on location with leading personalities of Italian film, art, and literature, and in museums and historical sites in and around Rome. All courses and faculty in the program are approved by The American University. Students can take courses in many fields, including history, art, political science, literature, Italian language, sociology, mathematics, and economics.

The Copenhagen Semester

The Copenhagen Semester is offered in cooperation with Denmark's International Study Program at the University of Copenhagen. Students can choose from a wide range of courses in general studies or international business that have Danish, Scandinavian, or European content and methods. The general studies curriculum includes such courses as Scandinavian Literature, Contemporary European Politics, Soviet Politics, Politics of the EEC, and art history courses. Students may enroll in such international business courses as Labor-Management Relations, Marketing in Europe, and East-West Business Relations. All classes are taught in English. The program is offered during fall and spring semesters for twelve to fifteen credit hours.

The Brussels Semester

This program, offered every fall and spring, is patterned on the Washington Semester model in that students have the opportunity to interact with foreign politicians and decision makers through seminars. Seminar topics include issues and problems in NATO strategy and burden-sharing; the impact of EC 1992 on member nations; NATO's future directions and arms control; East-West trade; and international economic issues. The program also includes internships with multinational corporations and a course on U.S.-Western European economic and trade relations. Participants in the program are accompanied by a member of the university faculty.

The Vienna Semester

The Vienna Semester, offered every fall and spring, is similar to the programs in London and Brussels in that participants have the opportunity to meet with representatives from the political arena, the diplomatic corps, industry, the press, and cultural organizations, and to attend focused lectures by the resident director. Participants with German-language proficiency can intern with the Austrian Parliament or agencies of the United Nations. Others can take up to twelve hours of intensive German.

The Buenos Aires Semester

Patterned after the other study abroad programs, the Buenos Aires Semester, offered every fall, focuses on the

political, social, economic, and international problems confronting Argentina and the region. In addition to seminars and lectures, participants have the opportunity to take a course on Argentine history and a course in intensive Spanish. Those with a working knowledge of Spanish can participate in the internship component, working two days each week with one of many domestic and international organizations.

Program in Poland

This semester or year-long program is offered at the Adam Mickiewicz University in Poznan. The program offers a broad range of subjects taught in English in small groups and tutorials. In addition, students can study Polish, Russian, German, and other languages at this university, which is recognized for its strength in languages and linguistics as well as the social sciences and humanities.

The Madrid Semester

This program, offered every spring, is similar in focus to the Buenos Aires Semester. Participants are accompanied by a full-time faculty member from The American University who provides background lectures in addition to inviting guest speakers from the political, economic, and cultural sectors of Madrid. Students also have the opportunity to take a course in Spanish Culture and Civilization and courses in intensive Spanish at various levels. Those with Spanish proficiency may do an internship in a multinational organization. Participants also gain cross-cultural experience through field trips and homestays with Spanish families.

The Mexico City Semester

This program allows students to begin or complete their Spanish studies sequence; the focus is similar to the Buenos Aires and Madrid programs. Offered every fall at UNAM, this program brings participants face to face with political and economic issues affecting this region through seminars with decision makers. Internships are also available to those with proficiency in Spanish. Homestays with Mexican families and select field trips provide a strong cross-cultural dimension.

The Paris Program

In cooperation with Via Paris, the university offers a full year or a semester program in Paris. Students must have two years of college French to participate. Students take liberal arts courses through several Parisian universities. Accommodations are provided in French family homes.

The Beijing Semester

This program is offered every fall at the University of International Business and Economics (UIBE) in Beijing, China. Participants take courses in Mandarin language, Chinese economic cooperation and business practices, and Chinese civilization and history, and they conduct an independent study under the supervision of the resident director. Students live in dormitories on the UIBE campus and participate in extensive study tours to the other provinces of China.

The Prague Semester

This program is held every fall semester in cooperation with Charles University and the Film Academy (FAMU) in

Prague. Accompanied by a university professor, students will have seminars with politicians, artists, film-makers, writers, historians, and other influential actors who are involved with the country's transformation to democracy and market economy. Courses in the Humanities and Social Science at Charles will focus on this remarkable transformation. At FAMU, students of film and media will have a "hands-on" opportunity to experience the technology and techniques of film and cinema in specific courses and practicum. Internships are also available in select areas.

The Budapest Semester

This program is held every fall semester in cooperation with Lorand Eotvos University in Budapest. Seminars with politicians and decision makers will introduce students to the effort in achieving economic and political change in this prosperous Eastern European country. Internships are available in political organizations, business enterprises, and the media. A course on History and Culture will focus on Hungary from the Hapsburg empire, through World Wars I and II, the Stalinist period, the 1956 Revolution, and events leading to the current transformation. The impact of modernization on societal values will give participants a deeper understanding of cultural norms in Hungary. In lieu of internship, language courses in German, Russian, or Hungarian are available.

The Santiago Semester

In cooperation with the Diego Portales University in Santiago, this program is held every spring semester. The seminar course, which brings politicians and decision makers to the class, focuses on Chilean transformation from a military state to civilian democracy. Internships with political and social organizations, as well as with emerging multinationals will be available to those with Spanish proficiency. For advanced students, a literature course will include readings and discussions on the works of Noel laureates Mistral and Neruda. Intensive Spanish at the intermediate and advanced levels are also available in lieu of the internship.

Summer Study Abroad

See "Summer Sessions" below.

English as a Second Language

The English Language Institute (ELI) offers regularly scheduled courses in English as a second language as well as special programs designed for sponsored groups of students. All regularly scheduled courses are designed to meet the specific needs of nonnative speakers of English who wish to attend universities in the United States. ELI's objective is to provide nonnative speakers with the opportunity to develop the linguistic proficiency and cultural awareness necessary for successful academic work. ELI accomplishes this objective through the courses and special workshops it offers in its two principal programs: the University Certificate Program and the Support Program. Both programs operate throughout the academic year and the summer session, with courses lasting fourteen weeks

during the fall and spring semesters and twelve weeks during the summer.

University Certificate Program

The University Certificate Program is an intensive program designed for full-time students. It satisfies requirements for full-time study for international students on F-1 (student) visas but does not carry credit. It is also open to students interested in enrolling on a part-time basis. To be eligible, prospective students must already possess basic competency in English and either be admitted to the university or qualify for enrollment as nondegree students.

Students in the certificate program take courses in grammar, reading, writing, and listening/speaking. They also enroll in special study-skills workshops and labs and in integrated skills courses in particular content areas. Qualified full-time students in the program may take regular university courses for credit at no additional charge in place of courses in skill areas in which they are already proficient. University students not enrolled in the certificate program may take courses and workshops in the program as needed.

Upon successfully completing the program by passing at least three courses at its highest level, students are awarded a certificate of completion. They may then continue their studies as either admitted or nondegree students, taking courses in the Support Program concurrently with academic study.

Students placed in four courses in the Certificate Program are considered to be full time in that program and may not take academic courses concurrently. Exceptions require permission from both ELI and the student's adviser.

Support Program

The Support Program is a nonintensive program designed to meet the needs of students beyond the certificate level who are ready to take academic courses. To be eligible, students must already have developed the English proficiency necessary for effective written and oral participation in graduate or undergraduate academic courses. Most students in the Support Program take academic courses concurrently with their English language studies. Three of the courses in the program offer credit and may be used to satisfy the university English requirement. Graduate students in the program enroll in workshops and a special seminar designed to assist them with their specific writing needs.

Admission to the English Language Institute

ELI students come from one of three groups: those who are interested only in English-language studies and have not applied for admission to university degree programs; those who have been referred to ELI as part of the admissions process; and those who have been admitted to university degree programs but must first develop college-level proficiency in English. All admitted students whose first language is not English and who do not have a TOEFL score above 600 are referred to ELI for English evaluation at the beginning of their first session. After evaluating these students, ELI either waives requirements for English studies or places the students in appropriate courses in the Certificate Program or the Support Program. Evaluations

determine the required course sequence and the number of courses which may be taken outside the institute.

Summer Sessions

Students attending summer sessions may choose from over 400 courses in forty fields of study during six separate sessions. Students may also choose from a variety of special summer programs, including a set of specially designed Washington-focused courses. A full complement of regular courses is scheduled to allow students to continue their progress toward a degree or certificate or to pursue academic directions they have been unable to explore during other terms. Many students use the summer for an internship or cooperative education placement.

Highly selective during the academic year, the university welcomes students in good standing at other colleges and universities to its summer programs.

Institutes and Special Summer Programs

Institutes, featuring short-term credit and noncredit educational opportunities, are frequently offered during the summer by several academic units. The topics of these institutes vary widely and change from summer to summer. Recent programs have included: Campaign Management Institute; English Education Institute; Opera Workshop; Film and Video Institute; Peace Studies Institute.

Programs for Pre-College Students

The university offers summer programs for college-bound high-school juniors, seniors, and recent high-school graduates. (For more information, see "Washington Semester Program" above)

Summer Study Abroad

Opportunities for study abroad are offered by American University professors through courses and institutes in their fields. Students have the opportunity to pursue particular themes in these programs. While programs may change from one summer to the next, the university usually offers one or two programs each summer.

Other Programs

The National Center for Business and Economic Communication

The National Center for Business and Economic Communication was established at The American University in 1979 as an independent forum where educators, media leaders, business and labor representatives, and students can interact for the purpose of improving business and economic news reporting. The center focuses on all three of the pertinent areas of news formation and dissemination: journalism education, current reporting practice, and business and labor communication.

For further information, write to the Director, The National Center for Business and Economic Communication,

Cassell 107, The American University, Washington, D.C. 20016.

The Business Council for International Understanding Institute

For thirty years, The Business Council for International Understanding Institute at The American University has been training and developing U.S. and foreign business personnel and their families for work and life in other cultures. The BCIU Institute provides workshops weekly for corporate personnel and their families from more than 400 major international corporations and has had more than 25,000 graduates living in 143 countries throughout the world. Programs consist of face-to-face language instruction in 43 languages integrated into intercultural communication workshops for 143 countries. In-company programs are conducted for executives, managers, and

technicians (and their families) in area and country studies, intercultural communication, international business negotiations, international business protocol, business English communication and presentation, and American Studies. All programs have varying degrees of intercultural communication. The faculty of resource persons number over 650 experts coming from The American University and other universities, governmental agencies, international organizations, and international business corporations. The BCIU institute reflects and has advanced the state of the art in intercultural communication for international business effectiveness overseas.

For additional information, write to the director, The BCIU Institute, The American University, Washington, D.C. 20016, telephone (202) 686-2771 or fax (202) 686-5923.



Students in the World Capitals Program studying in Rome

Courses of Instruction

Cooperative Education

Undergraduate

xx.392 Cooperative Education Field Experience (3-9)

May be repeated for credit, but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of thirty credit hours of college courses, good academic standing with the university, approval of academic adviser, and placement by the co-op office. *Note:* departments may have additional prerequisites; refer to specific course listings.

Graduate

xx.692 Cooperative Education Field Experience (3-6)

May be repeated for credit, but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of nine credit hours of course work, good academic standing with the university, approval of academic adviser, and placement by the co-op office. *Note:* departments may have additional prerequisites; refer to specific course listings.

University Honors Program

01.200 Honors Seminar in Arts and Humanities /A (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.201 Honors Seminar in Natural and Mathematical Sciences /N (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.202 Honors Seminar in Social Sciences /S (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.300 Honors Colloquium in Arts and Humanities /A (3) May be repeated for credit in the same term; topic must

be different. Usually offered every term. *Prerequisite:* permission of program director.

01.301 Honors Colloquium in Natural and Mathematical Sciences /N (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.302 Honors Colloquium in Social Sciences /S (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.390 Honors Independent Reading Course (1-6)

01.490 Honors Independent Study Project (1-6)

American Studies

Undergraduate Courses

02.100 Creativity in American Life (3) How Americans build traditions, create community, register rebellion, cope with contradictions, and dramatize shared values through expressive culture. Rotating topics include festival and ceremony, symbols and icons, forms of wisdom, nostalgia, and advertising as metaphor. Each topic examines the complex relationships between the arts, their producers and performers, the audience, special occasions, and everyday life. May be repeated for credit within the same term; topic must be different. Usually offered every fall.

02.140 Washington, D.C.: Life Inside a Monument (3) The unique nature of Washington as an international city, national capital, black-American cultural center, and home for its varied residents. Tensions between federal presence and local democracy. Tourism, political and cultural activities, migration and immigration, geography and the cityscape, neighborhood life. Usually offered every fall and summer.

02.202 American Dream/American Life /A, S (3) Changing American ideals and experiences. An interdisciplinary study of key themes in American self-definition (e.g., equality, opportunity, the changing landscape) as

articulated by theorists and as challenged by an increasingly diverse urban and technological nation. Emphasis on ordinary citizens as well as institutions. Usually offered every fall.

02.210 Folk Traditions, Community, and Identity / A 2:2 (3) Case studies of diverse social and ethnic groups—their verbal, material, and ritual folk traditions—reveal the ways in which folklore reflects beliefs, value systems, regional and community identity, and history. Students interpret (and occasionally collect) traditions concerning religion, work, race and ethnicity, gender, class, age, and family life. Usually offered every fall. *Prerequisite for General Education credit:* 61.105 or 29.115. *Note:* not open to students who have taken 02.196 American Folk Traditions or 02.100 Creativity in American Life: Folk Traditions.

02.230 Tribal Traditions / A 2:2 (3) Cultural and spiritual traditions of tribal societies and their persistence despite Western expansion and enforced acculturation. Class activities highlight American Indian economies, political systems, and the place of language, oral literature, music, and ceremony in Indian societies. Similarities among indigenous societies of America, Africa, Asia, and the Pacific are stressed. Usually offered every fall. *Prerequisite for General Education credit:* 60.105 or 61.105. *Note:* not open to students who have taken 02.334 Contemporary American Culture: American Indian Experience and Tribal Talk.

02.240 Poverty and Culture / S 4:2 (3) Students explore and debate rival theories about the causes and consequences of poverty. Why poverty occurs, why certain people are poor, how poverty influences family and community life, and how the poor respond to their situation and sometimes try to change it. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 19.100. *Note:* not open to students who have taken 03.341 Culture and Poverty.

02.320 American Musical Traditions (3) America's history can be written through its music. From early New England traditions through the contemporary period, this course examines our musical past. Topics include Anglo-American balladry, nineteenth- and twentieth-century classical and popular music, jazz, and the musical expression of such social movements as abolition, temperance, suffrage, labor and farming, war and peace. Offered irregularly.

02.321 American Decades (3) Political and economic affairs, international relations, social change, literature, drama, music, and fine and popular arts in one decade of American life. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

02.324 Reinventing American Families (3) Interplay in American life between symbols of proper families, ideas about what is natural, and Americans' diverse choices, commitments, and experiences as they make homes together. Topics include adoption, step-kinship, gay parents, single parents, class differences, ethnic variety, public policy implications. Offered irregularly.

02.325 The Sacred and the Profane in American Life (3) Ritual and taboo as replacing the sacred and profane

in secular society. Rituals include holidays, myths, heroes, sports, public and intimate interactions, and music. Taboos cover animals and nature, freaks, stigma, the human body, sexuality, madness and suicide, drugs, violence, and death. Usually offered alternate springs.

02.334 Contemporary American Culture (3) Interdisciplinary exploration, through politics, ethnography, literature, film, and art, of institutions and attitudes with decisive influence on the shape and quality of contemporary American culture. Rotating topics include work, violence, visions of the future, the culture business, women and men, women in the popular media, and language in the United States. May be repeated for credit in the same term; topic must be different. Usually offered every fall.

02.341 Research on the City of Washington (1-6) Student group research on special topics and projects in Washington. Offered irregularly.

02.390 Independent Reading Course in American Studies (1-6)

02.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* authorization of program director.

02.400 Interpreting American Culture (4) Seminar in American Studies theory and methods. Classic, emerging, and controversial approaches to American culture through such mixed media as architecture and photography, original documents and literary criticism, folklore and foodways, television and music. Usually offered alternate springs.

02.410 Senior Thesis I (3) Original interdisciplinary research as a capstone to the major. Students also meet in a seminar to compare experiences and discuss ways to translate American Studies theory and method into practical and professional concerns. Usually offered every fall. *Prerequisite:* 02.400.

02.411 Senior Thesis II (3) Usually offered every spring. *Prerequisite:* 02.400.

02.490 Independent Study Project in American Studies (1-6)

02.491 Internship in American Studies (1-6) Practical experience in a local organization such as a government office, museum, arts agency, or social action group. How to translate American Studies theory and method into professional skills and opportunities. Interns also meet in a seminar to discuss and interpret these experiences.

Graduate and Advanced Undergraduate Course

02.590 Independent Reading Course in American Studies (1-6)

Anthropology

Undergraduate Courses

03.110 Culture: The Human Mirror / S 3:1 (3) Peoples around the world create and use systems of symbols to express their identities as members of social groups. This

course draws on diverse life-cycle experiences in tribal, state-level, and post-colonial societies to explore ways that both tradition and contact with other cultures contribute to the cultural pluralism of the contemporary world. Usually offered every term.

03.150 Anthropology of American Life /S 4:1 (3) How race, gender, class, ethnicity, age, and region affect Americans' experiences of interwoven historical, economic, political, scientific, religious, and cultural processes. Usually offered every term. *Note:* not open to students who have taken 03.100 Cultures of the World.

03.200 City as Community /S 4:2 (3) The city, as one type of human community, is examined in terms of its special social and cultural features. Students carry out field research in the Washington, D.C. metropolis to gain first-hand experience in research methods (and use their comparative study of cities for interpreting local knowledge) for such topics as ethnicity, kinship, class, and gender. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 65.100. *Note:* not open to students who have taken 03.338 City as Community.

03.201 Cultural Anthropology /S (3) An exploration of cultures to document their critical importance as the unique tool of human survival. The course provides the framework for an appreciation of cultural differences and similarities and thereby increases understanding of the complex world with which we must cope. Usually offered every term.

03.202 Human Origins /N (3) The contributions that physical anthropology and archaeology can make toward an understanding of the origins and development of humankind. Topics include genetics, the principles of evolution as applied to humans, the nonhuman primates and their behavior, human fossils, and the archaeology of the New and Old Worlds. Usually offered every term.

03.210 Roots of Racism and Interracial Harmony /S 3:2 (3) Examines why racism has often characterized the relations between human groups, and compares these cases with other societies which have been nonracist. Social stratification, ideas about the nature and role of individual, and economic factors are considered within and across cultures. The course links analysis of the past to possible social action. Usually offered every fall. *Prerequisite for General Education credit:* 33.140 or 29.120. *Note:* not open to students who have taken 03.100 Cultures of the World: Roots of Racism.

03.215 Sex, Gender, and Culture /S 3:2 (3) How economic systems, social structures, and values construct and redefine biological distinctions between women and men. Topics include gender in egalitarian societies; origins and consequences of patriarchy; gay and lesbian cultures; gender, politics, and social change. Case studies from tribal, state-level, and post-colonial contexts. Usually offered every spring. *Prerequisite for General Education credit:* 03.110 or 23.150. *Note:* not open to those who have taken 03.340 Sex, Gender, and Culture.

03.220 Living in Multicultural Societies /S 3:2 (3) Foreign trade, foreign aid, tourism, and migration establish ties between peoples and cultures in spite of political and historical divisions. This course examines the effect of

international migration and the growing "one-world" economy on the daily lives of peoples in Indonesia, the Caribbean, and the emerging multicultural urban centers in the U.S. Usually offered every term. *Prerequisite for General Education credit:* 33.110 or 33.140.

03.225 Language and Human Experience /A 1:2 (3) Language and its contribution to creativity. The course explores how knowledge of language enriches human experience. Topics include imagery and metaphor building through language; the effects of topic, speaking situation, and gender on creativity in tribal, state-level, and post-colonial contexts; and ways written language recasts and redefines human imagination. Usually offered every fall. *Prerequisite:* permission of instructor or if taken for General Education credit, 23.120 or 67.115. *Note:* not open to students who have taken 03.337 Anthropology of Language.

03.251 Perspectives in Cultural Anthropology (3) Exploration of a variety of current perspectives in cultural anthropology. The kinds of questions anthropologists ask in seeking to understand cultural variation and diverse human experience. Relevance of anthropology to life in a changing, multicultural world. Usually offered every fall.

03.253 Introduction to Archaeology (3) Introduction to archaeology as a subfield of anthropology. Topics include the history of archaeology, methods of archaeological excavation and analysis, the historical archaeology of seventeenth and eighteenth century America, paleolithic archaeology in the Old World, the prehistory of North and South America, and other current discoveries and topics within the field. Usually offered every spring. *Note:* not open for credit to students who have taken 03.334 Modern Archaeology.

03.254 Anthropology of Language (3) A survey of anthropological interests in linguistics and in the study of language. Topics include: grammar as a system of knowledge; linkage between language, cognition, and social life; language diversity; organization of speech communities; and literacy and language planning. Usually offered every spring. *Prerequisite:* 03.251 or permission of instructor.

03.331 Human Variation (3) The genetic and environmental factors which influence modern human variation. Topics include genetics, growth and development, disease, nutrition, and adaptation. The role of biological evolution in determining present characteristics as an important unifying concept. The role of culture in this evolution is considered throughout the course. Usually offered every spring.

03.335 Culture and Personality (3) An exploration of the ways that cultural forces influence biographical pathways, life experiences, the patterning and expression of emotions, the experience of mental illness. Emphasis on the emergence of the self in everyday interaction and at the intersection of language and thought. Usually offered alternate falls.

03.336 Social Structure (3) Comparative study of structure and function of political, religious, and kinship arrangements in simple and complex societies. Topical emphasis varies for different semesters. Emphasis on conflict and integration, ideas and beliefs as symbols of

social relations, and problems of individual choice. Usually offered alternate springs.

03.339 Culture Area Analysis /S (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, South America, Mexico and Central America, North American ethnic groups, Europe, India, Southeast Asia, Africa, China, and Japan. Meets with 03.639. May be repeated for credit in the same term; topic must be different. Usually offered every term.

03.342 Women and Work (3) Work roles of women throughout the world. Analyzes historical and contemporary changes in the notion of work and women's labor in tribal societies and in Western societies since the Industrial revolution. Topics include unpaid work within the household and for family enterprises, as well as formal salaried enterprises. Usually offered alternate falls.

03.350 Special Topics (3) Comparison and analysis cross-culturally and within selected culture areas. Topics include: cultural perspectives on sports, war and aggression, rites of passage, food and culture, archaeology of the Chesapeake Bay region, North American prehistory, and historical archaeology. May be repeated for credit within the same term: content/topic must be different. Offered irregularly. *Prerequisite:* 03.251 or permission of instructor.

03.390 Independent Reading Course in Anthropology (1-6)

03.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

03.430 Magic, Witchcraft, and Religion /A (3) A comparative study of magic, witchcraft, and religion in Western and non-Western societies. Topics include an analysis of ritual behavior and the ritual process, mythology, sorcery, and revitalization movements. Usually offered alternate springs.

03.431 Taboos (3) Exploration of those persons, items, experiences, and acts which so frighten and repel humans that they try to prohibit them. Includes discussion of topics rich in taboo and sensitivity, including: sexuality, witchcraft, cannibalism, human-animal relations, madness, and death. Why taboos emerge, how they are enforced, and when they are violated. Usually offered alternate springs.

03.445 Developments in Anthropological Theory (3) Current theory and its historic roots. A capstone course drawing on method and theory in archaeology, linguistics, sociocultural anthropology, and physical anthropology. Usually offered every fall. *Prerequisite:* junior or senior standing in anthropology. *Note:* Not open to students who have taken 03.545 Developments in Anthropological Theory

03.450 Senior Seminar (3) Issues in description and analysis viewed from the perspective of writing ethnography. Comparative exploration of anthropological forms of writing. Relation to travel writing, diaries, and novels. Focus on problems such as audience, authority, and objectification. Attention to contemporary experimental

ethnographics. Usually offered every spring. *Prerequisite:* senior standing in anthropology.

03.490 Independent Study Project in Anthropology (1-6)

03.491 Internship in Anthropology (1-6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.498 Senior Thesis in Anthropology (1-6) Opportunity for qualified undergraduates to carry out anthropological research under supervision of members of the faculty. Development of a written paper and participation in senior thesis seminar are required. A maximum of six credit hours may be earned under this course number. May be repeated for credit but not within the same term. Usually offered every term. *Prerequisite:* permission of department chair.

Graduate and Advanced Undergraduate Courses

03.531 Archaeology (3) Topical courses in archaeology. Areas and topics offered include: historical archaeology, artifact analysis, archaeology of the Potomac Valley, the archaeology of North America and Mesoamerica, and archaeological laboratory practice. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 03.334 or permission of instructor.

03.532 Culture Change (3) Analysis of processes involved in stabilization, conflict, and change. Differential learning, innovation, and variation. The effect of change on individuals, cultures, and specific and general evolution. Culture contact, acculturation, revitalization, and modernization. Anthropological insights for projecting and planning future developments. Usually offered every spring. *Prerequisite:* 03.201, one additional course in cultural anthropology, or graduate standing.

03.534 Economic Anthropology (3) Discussion of the principal issues linking anthropological method and theory to the nature and organization of production, distribution, and consumption in Western and non-Western society. Substantive and formalist approaches to the description of economic institutions. Subsistence and commercial production, reciprocity and redistribution, market exchange, and aspects of consumption are examined with reference to a variety of case studies. Usually offered alternate springs. *Prerequisite:* 03.201, one other course in cultural/social anthropology, or permission of instructor.

03.535 Ethnicity (3) Ethnicity. Ethnic identity. Ethnocide. The reaction to these terms ranges from pleasure and pride to horror. Ethnicity all over the world has become a means whereby groups in large, complex societies defend their interests, avoid alienation, and create powerful rituals of self-preservation and defense. African, European, and American ethnic attitudes and experiences are discussed and compared to illustrate these themes. Usually offered alternate falls. *Prerequisite:* one course in social or cultural anthropology, e.g. 03.201.

03.537 Language and Culture (3) The interrelationship of social and linguistic patterns in cultures. Sociolinguistic

issues include linguistic variation and bilingualism as related to social strata, ethnic differences, colonialism, and nation building. Ethno-semantics, ethnography of communication, and metalinguistic questions are explored. Usually offered every spring. *Prerequisite:* permission of instructor or one course in anthropology or linguistics.

03.542 Principles of Applied Anthropology (3) The role of anthropology in formulating policy and implementing social and cultural change, and in community self-determination, health, education, urban and ethnic affairs, poverty, and crime. Usually offered every fall.

03.543 Anthropology of Development (3) Anthropological approaches to the analysis of economic development and change, with attention both to development theory and to practice. Development problems as perceived at the local level, contemporary development concerns, and the organization of development agencies and projects are considered. Usually offered every fall.

03.544 Topics in Applied Anthropology (3) A discussion of case studies and examples illustrating the application of anthropological method and theory to solving practical problems in contemporary society. Regularly recurring topics include: anthropology of education, bilingual education, medical anthropology, health and nutrition, public archaeology, and anthropology of public policy. May be repeated for credit in the same term; topic must be different. Offered irregularly.

03.550 Ethnographic Research Methods (3) Using a series of research exercises, students learn how to collect genealogies, gather censuses of research populations, conduct directed and nondirected interviews, map research areas, work with photographic data, collect life histories, observe as participants, write research proposals, and evaluate data. Ethical and methodological fieldwork problems are stressed throughout. Usually offered alternate springs.

03.552 Anthropological Research Methods (3) An introduction to research methods used within the field of anthropology, including ethnography, the distinctive tool of the field. Includes research design, data collection, quantitative and qualitative analysis. Ethics and pragmatics of research are discussed, including research funding and proposal writing. Usually offered every spring. *Prerequisite:* two courses in anthropology or graduate standing.

03.553 Data Banking and Multivariate Techniques (3) A consideration of storing and retrieving anthropological data and analysis. Both small and large scale data banks are studied. Analysis of the retrieved data using such techniques as factor, cluster, and proximity analysis is also covered, with a consideration of computer graphics for anthropological use. Usually offered alternate falls. *Prerequisite:* 03.552 and 42.202.

03.560 Summer Field School: Archaeology (3-9) Active participation in the excavation of an archaeological site. Training varies depending on the site, but usually includes site surveying, archaeological engineering, techniques of excavation, flora, fauna, and soil analysis, field laboratory practice, and on-site computer data processing. May be

repeated for credit but not in the same term; topic may be the same. Usually offered every summer.

03.590 Independent Reading Course in Anthropology (1-6)

Graduate Courses

03.631 Proseminar: Cultural and Social Anthropology (3) A graduate-level overview of both the history of cultural and social theories and methods and the contemporary concerns of anthropology. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.634 Proseminar: Archaeology and Physical Anthropology (3) A graduate-level overview of recent work, focusing on archaeological data: their nature, strengths and weaknesses, collection, analysis, and application to anthropological goals. Also considers the role of physical anthropology in the discipline. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.637 Proseminar: Anthropological Linguistics (3) An overview of major topics in linguistic science as they relate to general anthropological method and theory. Usually required of all incoming graduate students; consult the department chair. Usually offered every spring. *Prerequisite:* graduate standing.

03.639 Culture Area Analysis (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, South America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Southeast Asia, Africa, China, and Japan. Meets with 03.339. May be repeated for credit in the same term; topic must be different. Usually offered every term.

03.640 Current Issues in Anthropology (3) Seminar discussion of a particular problem of contemporary interest and its relationship to anthropological method and theory. Topic changes each semester. Regularly offered topics include: rural anthropology, structural analysis, myth and symbolism, culture and cognition, human ecology, urbanization, origins of the state, and migrations. Usually offered every term. May be repeated for credit in the same term; topic must be different.

03.690 Independent Study Project in Anthropology (1-6)

03.691 Internship in Anthropology (1-6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

03.797 Master's Thesis Seminar (1-6) Usually offered every term.

03.799 Doctoral Dissertation Seminar (1-24) Usually offered every term.

Art

Studio

Undergraduate Courses

05.100 Art: The Studio Experience /A 1:1 (3) Studio work in painting, drawing, design, and sculpture, focusing on the interrelationship of hand, eye, and mind in creating expressive works of art. Lectures, critiques, and museum visits relate basic visual language to analytic and creative processes of the artist. Usually offered every term.

05.205 Drawing: Responding to Vision /A 1:2 (3) Studio drawing course. Drawing from direct observation as a tool of discovery and as a process of analyzing vision. Students employ traditional materials and techniques to explore questions of form and expression presented through introductory lectures and demonstrations. Class critiques and museum assignments expand possibilities for individual development. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 17.105. *Note:* not open to students who have taken 05.121 Fundamentals of Drawing.

05.210 Painting: Color, Form, Expression /A 1:2 (3) Studio painting course. Problems in form and expression presented through illustrated lectures and demonstrations. Students learn the language of painting, its structure, and its potential for personal expression. Critical sensibilities are developed through museum visits and individual and group critiques. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105. *Note:* not open to students who have taken 05.120 Fundamentals of Painting.

05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3) Clay sculpting from a model as a tool in learning to see. Students master the fundamental studio skills, become conversant with the art of the past, and begin to develop a personal vision. Slide lectures, demonstrations, and museum assignments augment the studio classwork. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105. *Note:* not open to students who have taken 05.122 Fundamentals of Sculpture.

05.220 Design: Color Theory and Practice /A 1:2 (3) This studio course uses paint and color samples to develop a refined perception of the world. Students study the theory, visual properties, and psychological and physiological effects of color. Class exercises explore formal aspects of color and use them expressively to communicate ideas. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 17.105. *Note:* not open to students who have taken 05.150 Introduction to Design: Color.

05.225 Design: Form, Space, Vision /A 1:2 (3) A studio design course integrating materials, visual principles and the design process to solve graphic communication problems. It develops a fluency in visual language to form a basis of aesthetic judgment and teaches a method of analysis and inquiry which underlies creative thinking. Studio practice combines with class critiques and museum visits. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 67.115. *Note:* not open

to students who have taken 05.151 Introduction to Design: Two-Dimensional.

05.310 The History of Graphic Design (3) Graphic images have been used from prehistory to the computer age. A lecture-and-studio format presents the historical background for the graphic arts of calligraphy, typography, book design, mapping, diagramming, and illustration. Emphasis is put on the relationship of these applied arts to the fine arts, technology, and social history of the period as well as on the application of this visual language to contemporary design problems. Usually offered every fall. *Prerequisite:* general art survey or equivalent recommended.

05.320 Creative Painting (2-3) Studies in color, composition, and drawing from still life and figure. Individually assigned projects. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.210 or equivalent.

05.340 Sculpture (2-3) Problems and principles of sculpture. Acquaintance with tools, techniques, and materials for plastic expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.215 or equivalent.

05.344 Ceramics (3) Basic principles of working with clay. Instruction both in wheel and in other methods of making pottery. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

05.348 Design Techniques I (3) Exploration and analysis of graphic means for design presentation. Usually offered every term. *Prerequisite:* 05.225 or permission of instructor.

05.349 Design: Computer Graphics I (3) The goal of this course is to enable students to use the Apple Macintosh computer as a tool in the process of solving design problems. A desktop publishing and illustration program will be taught. The concentration of the class will be geared towards proficiency in the programs. Usually offered every term. *Prerequisite:* 05.350 or permission of instructor.

05.350 Typography: Theory and Practice (3) Theory and analysis of letter forms as design and symbol. Study of type faces, arrangement, and setting. Usually offered every fall. *Prerequisite:* 05.348 or concurrent registration.

05.351 Design Techniques II (3) Exploration and analysis of graphic means and structures for design presentation. Usually offered every term. *Prerequisite:* 05.350.

05.353 Typography: Color and Design (3) An exploration of structure, space, and color in visual communications through the study of type faces and the arrangement of words. Usually offered every term. *Prerequisite:* 05.350.

05.354 Production for Graphic Designers (3) An introduction to the technical procedures that translate graphic design from an idea to a printed piece. Includes development of comprehensive sketches, preparation of mechanicals, paper and ink selection, color separation, and printing procedures. Lecture, studio projects, and local field trips. Usually offered every fall and summer. *Prerequisite:* 05.348 and 05.350 or departmental permission.

05.356 Advanced Design I (3) Experimentation and practice in design problems relating to visual communication; emphasis is on techniques and solutions of professional problems. Usually offered every fall. *Prerequisite:* 05.351 or permission of instructor.

05.357 Advanced Design II (3) Practical consideration and execution of complex design problems involving previous design training and preparation of portfolios. Usually offered every spring. *Prerequisite:* 05.356 or permission of instructor.

05.359 Illustration (3) Basic black-and-white illustration techniques including representational drawing and pictograms. Emphasis is on adaptation of illustration to reproduction. Usually offered every spring. *Prerequisite:* 05.348 or two drawing courses or permission of instructor.

05.360 Drawing (3) Structural drawing from the human figure. Movement, expression. Range of techniques and media. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.205 or equivalent.

05.363 Introduction to Printmaking (3) An introduction to basic printmaking processes. Emphasis on the effect of different processes on imagery, visual thinking and individual development. Usually offered every fall. *Prerequisite:* one drawing class or equivalent or permission of instructor.

05.364 Printmaking: Woodcut and Surface Print (3) Woodcut and relief print as media of creative expression. Emphasis on experimentation and control. Usually offered every term. *Prerequisite:* two drawing courses or one drawing and one design course.

05.390 Independent Reading Course in Art (1-6)

05.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

05.490 Independent Study Project in Art (1-6)

05.491 Internship (3) *Prerequisite:* approval of adviser and department chair.

Graduate and Advanced Undergraduate Courses

05.520 Techniques of Etching (3) Investigation of etching and its various techniques. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.364 or two courses in drawing.

05.533 Materials and Techniques of Painting (3) Technical investigation of painting methods from the Renaissance to the present. Preparing grounds, media, underpainting, glazing, emulsions for tempera, etc. Usually offered every fall. *Prerequisite:* two painting courses or permission of instructor.

05.560 Drawing (3) Experiments in the creative and expressive qualities of drawing. Personal creative expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.590 Independent Reading Course in Art (1-6)

Graduate Courses

05.690 Independent Study Project in Art (1-6)

05.691 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

05.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

05.700 Criticism of Painting (3) A theoretical and philosophical consideration of painting. Detailed analysis of artistic works. Lecture and slides. Usually offered every spring. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.792 Art Laboratory: Painting (3) Intensive investigation of ideas and techniques in painting. Emphasis on experimentation leading to development of individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.793 Art Laboratory: Sculpture (3) Intensive investigation of sculpture with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.795 Art Laboratory: Printmaking (3) Intensive investigation of printmaking with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.797 Master's Thesis Seminar (3-9) Independent work toward the thesis, with regular critiques and discussion. Consult the department for registration and participation requirements. Usually offered every term. *Prerequisite:* M.F.A. candidate with permission of department chair.

Art History

Undergraduate Courses

07.100 European Art: From Cave to Cathedral / A 2:1 (3) This course examines artistic monuments from the paleolithic through medieval periods, including the religious, philosophical, and social forces that shaped them. Considered are Egyptian, Cretan, Grecian, Roman, Judaic, and Christian art and architecture from early basilicas through French Gothic cathedrals. Students are provided analytic tools for understanding art in history. Usually offered every term. *Note:* not open to students who have taken 07.100 Survey of Art I. *Note also:* students may not take both 07.100 and 07.105 for General Education credit.

07.101 European Art: Renaissance to the Present (3) An illustrated introduction to architecture, sculpture, and painting in the Western world between 1400 and 1980. Field trips. Usually offered every spring. *Prerequisite:* 07.100 recommended but not required.

07.105 Art: The Historical Experience /A 1:1 (3) An introduction to works of art in historical context. A selection of topics in Western art from prehistory to the present permits in-depth study of such major architectural monuments as the Parthenon, Chartres Cathedral, St. Peter's in Rome, and such artists as Michelangelo, Raphael, El Greco, Gentileschi, Rembrandt, the French Impressionists, and Picasso. Usually offered every term. *Note:* not open to students who have taken 07.105 introduction to the History of Art. *Note also:* students may not take both 07.100 and 07.105 for General Education credit.

07.200 Art and Architecture in Rome (3) A survey of western art and architecture as exemplified in Roman museums, churches, palaces, and archaeological sites. Offered only in Rome. Usually offered every term.

07.201 Christian Archaeology in Rome (3) An introduction to the major early Christian monuments of Rome and Italy; on-site sessions in Rome and Ravenna. Offered only in Rome. Usually offered every term.

07.205 Art of the Renaissance /A 2:2 (3) Architecture, sculpture, painting, and prints of Renaissance Italy and Northern Europe. Considering the interplay of art with philosophy, theology, and social change, this course examines the artistic legacy and rich creative achievements of a culture inspired by classical antiquity, but which also understood itself as a new historic era. Usually offered every spring. *Prerequisite for General Education credit:* 07.100 or 61.105. *Note:* not open to students who have taken 07.304 Aspects of Renaissance Art.

07.210 Modern Art: Nineteenth and Twentieth Centuries /A 1:2 (3) An introduction to the art of the modern period. Presents in cultural and historical context the work of major artists such as David, Goya, Delacroix, Monet, Van Gogh, Cézanne, Picasso, Matisse, Duchamp, Pollock, and many others. The issue of what is unique about modern art and the expanding conception of creative expression in our era are emphasized. Usually offered once a year. *Prerequisite for General Education credit:* 05.100 or 07.105 or 61.110. *Note:* not open to students who have taken 07.306 Modern Art.

07.215 Architecture: Washington and the World /A 1:2 (3) Appreciation of our architectural heritage and a study of its history through the great buildings of Washington. Monuments such as the White House and the capitol are studied in relation to structures from which they have evolved. Students obtain a knowledge of building traditions of Washington, the United States, and the western world. Usually offered once a year. *Prerequisite for General Education credit:* 07.105 or 61.105.

07.302 Roman Art (3) Art and architecture of Rome from the republic through the Empire. Meets with 07.602. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.303 Medieval Art (3) A survey of Medieval art covering Early Christian, Byzantine, Romanesque, and Gothic developments in architecture, painting, and sculpture. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.305 Aspects of American Art (3) Changing topics on selected individual artists or on key themes or concepts in American art, from the colonial period to the present.

Works of art and library resources in the Washington area are emphasized. Usually offered alternate years.

07.307 Women and Art (3) A selective examination of the role played in the history of art by women artists and by female imagery, with some attention to the effects of sexual stereotyping on traditional concepts of art history. Particular emphasis is given to contemporary women artists and feminist art theory. Meets with 07.607. Usually offered every fall. *Prerequisite:* two courses in art history including 07.100, 07.101, or 07.105 or equivalent.

07.308 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. Meets with 07.608. Offered irregularly. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.309 Arts in the Nation's Capital (4) A component of the Washington Semester in Art and Architecture. The important issues facing public and private support of the arts today. Key topics include: art museums in the nation's capital; their collections and missions; government support for the arts; an exploration of specialized collections; the commercial sector; art as a commodity; artists at work; artists' studios and the contemporary arts scene; art law and intellectual property; museum advocacy; and community-based arts organizations. Usually offered every term.

07.310 Architecture of Washington and Environs (4) The architectural component of the Washington Semester in Art and Architecture. The rich architectural heritage of Washington and its environs and the basic principles of architectural history and preservation. The course consists of lectures, visits to important architectural monuments, and contact with preservation agencies and personnel. Usually offered every term.

07.316 The Architecture of Humanism 1400-1700 (3) A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning. Meets with 07.616. Offered irregularly.

07.318 Nineteenth- and Twentieth-Century Architecture (3) Modern architecture and the encounter of architecture with the machine age. Meets with 07.618. Offered irregularly.

07.331 Painting and Sculpture in the U.S. to 1900 (3) Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Meets with 07.631. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.332 Painting and Sculpture in the U.S.: 1900 to the Present (3) Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Meets with 07.632.

Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.333 American Architecture until 1870 (3) Development of American architecture and its relation to European developments. Meets with 07.633. Usually offered alternate falls.

07.334 American Architecture: 1870 to the Present (3) American architecture and city planning from the post-Civil War period to the present. Meets with 07.634. Usually offered alternate springs.

07.390 Independent Reading Course in Art History (1-6)

07.490 Independent Study Project in Art History (1-6)

07.491 Internship (3) Prerequisite: approval of advisor and department chair.

07.492 Art and Architecture Internship (4) Washington Semester Program in Art and Architecture internships in Washington museums, arts organizations, historic preservation agencies, private galleries, auction houses, art law firms, architectural institutions, and a wide variety of other arts-related businesses and organizations. Includes academic requirements; keeping a journal of the on-going experience, and on-site visits by the professor.

Graduate and Advanced Undergraduate Courses

07.500 Approaches to Art History (3) Reading, discussion, and written work based on selected topics in formal analysis, style, iconography, and quality with attention to critical interpretation and writing research papers. Required for undergraduate art history majors and for graduate art history students. Usually offered every fall. *Prerequisite:* four art history courses or graduate standing. *Note:* required for undergraduate art history majors and for graduate art history majors.

07.501 Baroque Painting (3) Seventeenth century painting in Italy, Spain, France, the Netherlands, and England. Emphasis on Caravaggio, Rubens, Rembrandt, Vermeer, Poussin, and Velázquez. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.506 Renaissance Sculpture (3) Italian sculpture from the fifteenth to the seventeenth century, stressing achievements of Donatello, Michelangelo, and Bernini. Offered irregularly. *Prerequisite:* two art history courses including 07.101 or permission of instructor.

07.508 Painting: Rococo through Impressionism (3) Counter-Rococo currents in the late eighteenth century, including neoclassicism and proto-Romanticism, with a detailed study of David and Goya; French Romanticism in the art of Géricault and Delacroix; romantic landscape painting with emphasis on Turner, Constable, Friedrich, Corot, and the Barbizon School; the realism of Courbet; Manet and Degas; and Monet and the French Impressionists. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.510 Painting: Post-Impressionism to Expressionism (3) Reactions to Impressionism in the 1880s and 1890s in France and elsewhere in Europe. Emphasis on

the art of Scurat and the Neo-Impressionists, Cézanne, Gauguin and the Symbolists, and Van Gogh. Also studied are Toulouse-Lautrec, Bonnard, Vuillard, Munch, Ensor, and Klimt. Art Nouveau and Expressionism are considered as Post-Impressionist phenomena, and their effect on the early work of Matisse and Picasso is assessed. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.511 Painting: Cubism to the Present (3) After analyzing the development of Cubism in the art of Picasso and Braque, the course discusses the Cubist followers, Gris, Léger, Delaunay, and the Italian Futurists. Also studied are the nonobjective styles of Kandinsky and Mondrian, and the Dada and Surrealist movements, with emphasis on Duchamp, Miró, and Picasso. American art since 1945 and its roots in traditions of European modernism are considered. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.513 Renaissance Painting: Giotto to Bellini (3) Developments in Florence, Siena, and other artistic centers, with regard to the formation and solution of Renaissance pictorial problems, 1300-1475. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.514 Renaissance Painting: Leonardo to Caravaggio (3) Development of High Renaissance, Mannerist, and proto-Baroque styles. Major artistic personalities, such as Michelangelo, Raphael, Giorgione, and Titian, 1475-1580. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.520 Seminar in Art History (3) Reports and critical discussion of research papers on topic announced for semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* six art history courses or permission of instructor.

07.590 Independent Reading Course in Art History (1-6)

Graduate Courses

Note: 600-level courses generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

07.602 Roman Art (3) Art and architecture of Rome from the Republic through the Empire. Meets with 07.302. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.607 Women and Art (3) A selective examination of the role played in the history of art by women artists and by female imagery, with some attention to the effects of sexual stereotyping on traditional concepts of art history. Particular emphasis is given to contemporary women artists and feminist art theory. Meets with 07.307. Usually offered every fall. *Prerequisite:* two art history courses including 07.100, 07.101, 07.105, or equivalent.

07.608 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the

twelfth to the fifteenth century in Europe. Meets with 07.308. Offered irregularly. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.616 The Architecture of Humanism 1400-1700 (3) A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning. Meets with 07.316. Offered irregularly.

07.618 Nineteenth and Twentieth Century Architecture (3) Modern architecture and the encounter of architecture with the machine age. Meets with 07.318. Offered irregularly.

07.631 Painting and Sculpture in the U.S. to 1900 (3) Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Meets with 07.331. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.632 Painting and Sculpture in the U.S.: 1900 to the Present (3) Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Usually offered every spring. Meets with 07.332. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.633 American Architecture until 1870 (3) Development of American architecture and its relation to European developments. Meets with 07.333. Usually offered alternate falls.

07.634 American Architecture: 1870 to the Present (3) American architecture and city planning from the post-Civil War period to the present. Meets with 07.334. Usually offered alternate springs.

07.690 Independent Study Project in Art History (1-6)

07.691 Internship (3-6) *Prerequisite:* approval of adviser and department chair.

07.792 Research Seminar in Art History (3) Normally drawn from one of six areas: Renaissance art, Baroque and Rococo art, nineteenth- and twentieth-century art, American art, and architecture. The subject is announced each semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to M.A. candidates with twelve hours of graduate art history with B average and permission of department chair.

07.793 Directed Research in Art History (3) Topic arranged. Must be in a field listed under 07.792, but not in field covered in 07.792 that semester. Usually offered every term. *Prerequisite:* open only to M.A. candidates with 12 hours of graduate art history with B average and permission of department chair.

Biology

Undergraduate Courses

09.100 Great Experiments in Biology /N 5:1 (3) The core of biology is the scientific experiment. This course focuses on some classic experiments that introduce students to the modern study of biology and scientific method. Experiments include ones in the molecular basis of mutation, separation of complex biologically important molecules, and the construction of demographic tables. Usually offered every fall. *Prerequisite:* completion of the College Mathematics Requirement. *Note:* not open to students who have taken 01.301 Great Experiments in Biology.

09.110 General Biology I /N 5:1 (4) An in-depth introduction and exploration of the study of life from atoms, molecules, organelles to the cellular levels of organization. Emphasis on cell structure and function, energetics and metabolism, the gene, molecular genetics, and evolution. The laboratory component introduces the scientific method and experimentation through the study of microbes, plants and animals from molecules, organelles to the cellular level of organization. Two and a half hours of lecture and two and a half hours of laboratory per week. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in calculus with permission of the Department of Mathematics and Statistics. *Note:* may not be taken by those who have taken 09.101 General Biology I Lecture.

09.200 Structure and Function of the Human Body /N 5:2 (3) The human organism as a paradigm for biological organization. The relationship between structure and function of organ systems. Disease processes in the context of normal physiology; social concerns from a biological perspective. Usually offered every term. *Prerequisite for General Education credit:* 09.100 or 09.110 or 57.115. *Note:* not open to students who have taken 09.100 Human Biology.

09.210 General Biology II /N 5:2 (4) An exploration of the origins of planet Earth and life. Emphasis on the organismal and higher levels of biological organization. The diversity of life through a survey of the five kingdoms and their phylogenetic relationships. The form and function of plants and animals. A consideration of the interrelationships between organisms and environment. The laboratory component explores the diversity of life at the organismal and higher levels of biological organization. Studies include form and function of plants and animals, dissection of the rat, and selected systems. Two and a half hours of lecture and two and a half hours of laboratory per week. Usually offered every term. *Prerequisite:* 09.110.

09.220 The Case for Evolution /N 5:2 (3) The controversies surrounding the changes in species through time. Organic evolution: what is fact, what is hypothesis, and what is belief are assessed. The case for evolution by natural selection. Usually offered every term. *Prerequisite for General Education credit:* 09.110 or 09.100, or 57.115.

09.240 Oceanography /N 5:2 (3) An introduction to the study of the sea, including continental drift and plate tectonics, marine mineral resources, climatology and meteorology, currents, winds, sediments, beaches, waves,

violent storms, tsunamis, tides, dunes, marshes, swamps, reefs, productivity, upwelling, fisheries, dangerous marine animals, whales, whaling, sharks, shellfish, ocean dumping, and marine law. Usually offered every spring. *Prerequisite for General Education credit:* 09.100 or 09.110 or 15.100 or 15.110 or 51.100 or 51.105 or 51.110. *Note:* not open to students who have taken 00.200 General Education Complement: The World Ocean.

09.250 Living in the Environment /N 5:2 (3) Focuses on key principles that govern how nature works and applies them to possible solutions to environmental problems. Major topics include energy flow and nutrient cycling through ecosystems, properties of natural communities, human population dynamics, resource conservation and management, the meaning of pollution, and environmental ethics. Usually offered every spring. *Prerequisite:* previous experience with biology or chemistry and, for General Education credit, 09.100 or 15.100.

09.300 Cell Biology with Laboratory (4) Integrated study of cell structure and function in microorganisms, plants, and animals emphasizing their ultrastructure, biochemistry, and physiology. Lab consists of direct experience with the morphology and physiology of cells. Exercises include the use of pH meters, spectrophotometers, the ultracentrifuge, compound light, polarizing and phase contrast microscopes. Studies of enzyme kinetics, cell motility and respiration, chromosome structure and fundamental histology are also conducted. Usually offered every fall. *Prerequisite:* 09.210, 15.110, 15.210.

09.330 Human Anatomy and Physiology I Lecture (3) With 09.331, a two-semester sequence focusing on anatomical and physiological studies of the human organism: integumentary, skeletal, muscular, and nervous systems. Lectures concentrate on normal functioning and homeostasis of the several systems. Usually offered every fall. *Prerequisite:* 09.110 and one semester of chemistry or permission of instructor; must be taken concurrently with 09.332.

09.331 Human Anatomy and Physiology II Lecture (3) Continuation of 09.330, concentrating on endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital systems. Usually offered every spring. *Prerequisite:* one semester of chemistry or permission of instructor; must be taken concurrently with 09.333.

09.332 Human Anatomy and Physiology I Laboratory (1) Complements lecture material with time divided between cat dissection and selected experiments illustrating physiological principles. Usually offered every fall. *Prerequisite:* must be taken concurrently with 09.330.

09.333 Human Anatomy and Physiology II Laboratory (1) Concentrates on the endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital systems. Usually offered every spring. *Prerequisite:* must be taken concurrently with 09.331.

09.356 Genetics with Laboratory (5) Basic genetic principles as revealed by classical and modern research methods. Patterns of gene transmission; gene structure, function, interactions, and mutation; chromosomal aberrations; nonchromosomal inheritance; biochemical genetics; and population genetics. Experiments illustrating

basic genetic concepts, using materials from corn, drosophila, and humans. Usually offered every spring. *Prerequisite:* 09.300 or permission of instructor.

09.390 Independent Reading Course in Biology (1-6)

09.392 Cooperative Education Field Experience (3-9) See Cooperative Education in this publication.

09.404 Biology of Plants with Laboratory (4) An in-depth survey of plant structure and function, with emphasis on photosynthesis, development, physiology, and evolution. Usually offered every spring. *Prerequisite:* 09.210 and 15.310.

09.410 Invertebrate Zoology with Laboratory (4) Structure, evolution, and physiology of invertebrate animals, marine groups, Helminthes, and certain insects. The laboratory includes the identification of organisms within the various taxa. Sampling techniques for the collection of animals in fresh and salt water systems; field trips for collection and identification of habitats for insects and worms; record-keeping and an understanding of instrument and equipment maintenance. Usually offered alternate falls. *Prerequisite:* 09.110 and 09.210.

09.423 Introduction to Ecology (3) General principles of terrestrial and aquatic ecology, emphasizing deciduous forest and fresh water ecology. Students with career interests in ecology are encouraged to take 09.424 concurrently. Usually offered every fall. *Prerequisite:* 09.210.

09.424 Introduction to Ecology Laboratory (1) Laboratory and field investigations associated with general ecological concepts. Terrestrial and aquatic field sampling techniques. Data analysis techniques. Usually offered every fall. *Prerequisite:* 09.423, which may be taken concurrently.

09.435 Vertebrate Physiology with Laboratory (5) Properties and physiology of vertebrate organ systems are explored. Laboratory illustrates selected physiological principles and encourages scientific inquiry. Usually offered alternate falls. *Prerequisite:* 09.300, 15.110, and 15.210.

09.440 Microbiology with Laboratory (5) Introductory survey of the protists (with emphasis on bacteria): their morphology, physiology, metabolism, growth, and destruction and their role in human welfare as agents of disease and environmental change. Laboratory techniques of straining, cultivation, isolation, and identification of microbes, with emphasis on bacteria. Experiments on physiology, metabolism, and physical-chemical effects on growth and death of microbes. Usually offered every fall. *Prerequisite:* 09.110, 09.210, and 15.310.

09.450 Foundations of Immunology (3) The basic biology of immunity. Stressing the cellular, genetic, biochemical, and developmental aspects of "immunologic surveillance," the lectures examine immunogens, antigens, antibodies, immunoglobulin synthesis, hypersensitivity, immunologic aging, tumor immunity, and transplantation dynamics. Usually offered every spring. *Prerequisite:* 09.110, 09.210, 09.300, 15.110, and 15.210.

09.456 Honors Seminar (1) Presentation of summaries of recent primary literature in biology.

09.457 Honors Research (2) Students design and conduct laboratory or field research projects, write the results as scientific papers, and present the results in a departmental seminar. Pure library research projects are prohibited.

09.488 Reproduction Biology (3) A study of reproductive processes, associated diseases, and conditions involving gametogenesis through pregnancy and birth, with emphasis on the human situation. Usually offered alternate springs. *Prerequisite:* 09.110 or 09.200.

09.490 Independent Study Project in Biology (1-6)

09.491 Internship (1-4)

09.499 Senior Seminar in Biology (3) This seminar, required of all senior biology majors, challenges students to examine unifying principles of biology. Different topics are presented in discussions, through faculty and guest speakers, readings, and individual student presentations. Usually offered every spring. *Prerequisite:* senior standing; biology majors only.

Graduate and Advanced Undergraduate Courses

09.500 Advanced General Microbiology (4) Structure and functional anatomy of prokaryotic cell walls and membranes; bacterial phototrophs, autotrophs, heterotrophs, their main pathways of degradative and synthetic metabolism; mechanisms of prokaryotic genetic exchange; and regulation of gene expression. Laboratory illustrates physiological and genetic concepts. Usually offered every spring. *Prerequisite:* 09.440 and organic chemistry.

09.501 Pathogenic Microbiology (4) Infectious diseases of humans with emphasis on bacterial pathogens and the biology of the causative agents. Host-parasite relationships, pathogenesis, immunology, and epidemiology are studied. Laboratory. Usually offered every fall. *Prerequisite:* 09.440.

09.505 Introduction to Neurobiology (3) A general introduction to basic neuroanatomy and neurophysiology, with discussions of current topics in neuroscience. Intended for advanced undergraduates in biology or psychology pursuing a natural-science curriculum, and for graduate students in biology and psychology. Usually offered alternate falls. *Prerequisite:* one year college-level biology and permission of instructor. A course in anatomy and physiology is strongly recommended.

09.506 Introduction to Medicine and Physical Diagnosis (3) An introduction to basic techniques of physical examination, medical history-taking, and the use of laboratory tests for the diagnosis of human disease. The physiological functions of the body systems are reviewed prior to the study of common diseases afflicting humans. Usually offered every spring. *Prerequisite:* permission of instructor.

09.510 Immunogenetics (3) Genetic control of immunologic reactions; inheritance of cell-borne antigens determining blood groups; and transplantation of cells, tissues, and organs. Current concepts of related immunological phenomena including cancer and pregnancy. Usually offered alternate springs. *Prerequisite:* four courses in biology.

09.511 Animals in Research (3) The design and maintenance of animal colonies for use in toxicology and biomedical research. The construction and design of buildings, temperature controls, animal rooms, and cages. Laboratory personnel, their management, animal welfare, and federal regulations governing the use of animals. Usually offered every fall. *Prerequisite:* junior standing.

09.512 Clinical Laboratory Methods (1) Lecture, demonstrations, and discussion of clinical laboratory operation: biohazard and chemical safety; tests and significances of urine, blood, body solid wastes, food, and drinking water. Usually offered every spring and fall. *Prerequisite:* one year each of biology and chemistry; must be taken concurrently with 09.513.

09.513 Clinical Laboratory (3) Intensive laboratory activities designed to develop safe clinical and other basic laboratory skills. Urinalysis; blood analysis; food analysis; drinking water analysis. Usually offered every spring and fall. *Prerequisite:* one year each of biology and chemistry; must be taken concurrently with 09.512.

09.528 Comparative Mammalian Embryology (3) Descriptive aspects of embryology of mammals. Emphasis on development of humans. Usually offered alternate springs. *Prerequisite:* 09.550 or equivalent and permission of instructor.

09.530 Histology Lecture (3) Study of the microscopic anatomy of tissues and organs with emphasis on human microanatomy. Usually offered alternate springs. *Prerequisite:* 09.300 or equivalent and permission of instructor; must be taken concurrently with 09.531.

09.531 Histology Laboratory (2) Involves the study of prepared slides and the learning of various histological techniques. Usually offered alternate springs. *Prerequisite:* must be taken concurrently with 09.530.

09.532 Medical Parasitology (4) An introduction to parasitology, emphasizing the study of the host-parasite relationships of protozoan and helminthic animals infecting humans. Includes reservoirs, vectors, life cycles, epidemiology, pathogenesis, control, treatments, and diagnostic stages. Includes laboratory. Usually offered alternate falls. *Prerequisite:* graduate or advanced undergraduate standing and permission of instructor.

09.541 Cellular Immunology (4) Current concepts of the immune response at the cellular level. Structure and function of the T-lymphocyte, B-lymphocyte, macrophages, and ancillary cells. Theories of antibody diversity and the cellular basis of immunoglobulin formation. Cellular aspects of immunologic tolerance, hypersensitivity, surveillance, and clinical immunology. Review of the current literature. Usually offered every fall. *Prerequisite:* 09.450 or graduate standing.

09.543 Virology (3) Characteristics of bacterial, plant, and animal viruses. Genetics and biochemistry of viral pathogenesis. Introduction to medical virology and concepts of antiviral immunity. Theories of viral oncogenesis. Usually offered alternate springs. *Prerequisite:* 09.440 and two courses in organic chemistry.

09.544 Epidemiology (3) An introduction to the scope of epidemiology and to the designs of epidemiological studies,

data evaluation, and cause and effect relationships in the characterization of disease occurrence in human populations. Usually offered alternate falls. *Prerequisite*: 09.440, 42.202, graduate or advanced undergraduate standing, and permission of instructor.

09.550 Developmental Biology (3) The descriptive morphology, physiology, biochemistry, genetics, and molecular biology of the developmental processes in a variety of organisms. Usually offered every fall. *Prerequisite*: 09.300 or equivalent, 15.320 or equivalent, and senior or graduate standing.

09.551 Developmental Biology Laboratory (2) Training in embryo manipulation and study of prepared microscope slides in order to illustrate developmental concepts. Usually offered every fall. *Prerequisite*: concurrent registration in 09.550, 09.300 or equivalent, 15.320 or equivalent, and senior or graduate standing.

09.560 Techniques in Cell Biology (3) Basic techniques of cell and tissue culture. Aseptic technique, primary culture, culture and characterization lines, cell growth kinetics, and physical methods of cell separation. Usually offered every fall. *Prerequisite*: 09.300 or equivalent and senior or graduate standing.

09.565 Techniques of Ecological Research (3) Training in the techniques of ecological research. The course integrates sampling problems in the field, statistical analysis of the data, and interpretation of the results in terms of major ecological questions. Usually offered every fall. *Prerequisite*: 09.423 or equivalent, 42.514 or equivalent, and senior or graduate standing.

09.566 Evolutionary Mechanisms (3) The genetic composition of populations and the theory and principles of natural selection. Species formation and differentiation in Darwinian and neo-Darwinian theory. Evolution above the species level and current evolutionary concepts (such as sociobiology and catastrophe theory) are also considered. Usually offered alternate falls. *Prerequisite*: 09.300, 09.356, or 09.550.

09.571 Topics in Zoology (1-4) The taxonomy, biogeography, and natural history of a selected group of animals. The groups and their taxonomic extent vary. Offered irregularly. *Prerequisite*: senior or graduate standing.

09.572 Special Topics in Ecology (1-4) Selected topics and current research relating to freshwater and marine aquatic ecosystems, biogeography, and populations of plants and animals. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite*: one course in basic ecology.

09.574 Special Topics in Genetics (1-4) Topics such as the molecular aspects of genetic regulation, development, and recombination. Laboratory topics are also given, but not with every offering. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite*: permission of instructor.

09.575 Special Topics in Immunology (1-4) Seminars include a discussion of such current research interests as genetics of antibody formation, lymphocyte surface antigens, cell interactions in immune responses, and transplantation and graft-vs.-host reactions. May be repeated

for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite*: permission of instructor.

09.577 Special Topics in Developmental Biology (1-4) Current research interests such as nuclear-cytoplasmic interactions, cell surface in development, developmental aspects of carcinogenesis, and gene expression in development. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite*: 09.550 or equivalent and permission of instructor.

09.590 Independent Reading Course in Biology (1-6)

Graduate Courses

09.660 Mammalian Physiology and Pathology (3) The way systems function and the way each contributes to the function of the body as a whole. Discussion and identification of the toxic agents that interfere with the normal function of the body. Offered irregularly.

09.661 Techniques of Molecular Biology (3) Training in the basic manipulation of DNA, RNA, and protein. Practical experience in several different analytical and preparative procedures. Usually offered every spring. *Prerequisite*: 15.560 or equivalent.

09.664 Techniques of Evolutionary Research (3) Training in three major areas of evolutionary research: molecular evolution, quantitative genetics, and phlogenetic reconstruction. Both laboratory and quantitative skills are developed. Usually offered every spring. *Prerequisite*: 09.566 or equivalent, 42.514 or equivalent.

09.679 Aquatic Toxicology (3-4) The principles and applications of physiological toxicology, toxicological methodology and data, bioaccumulation of aquatic contaminants, and the fate of chemicals in the aquatic environment. Students conduct standardized bio-assays and evaluate the toxicity of selected compounds to selected trophic levels. Usually offered alternate springs. *Prerequisite*: graduate standing and permission of instructor

09.680 Introduction to Toxic Materials (3) Past and present bio-political decisions in the context of specific effects on resources and policy. Bio-political resource-management decisions with indirect and direct wildlife implications as related to toxic and hazardous materials. Actual and hypothetical decision processes scrutinized as to their predictability and consequences. Usually offered every fall.

09.682 Federal Regulations for Toxic Materials (3) The values and hazards of agricultural chemicals and other environmental pollutants. Integrated crop management. Statutes, regulations, laws, and environmental quality. Usually offered every spring.

09.690 Independent Study Project in Biology (1-6)

09.691 Internship (1-6)

09.692 Cooperative Education Field Experience (3-6) See Cooperative Education in this publication.

09.700 Graduate Seminar (1) May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite*: graduate standing in biology.

09.790 Biology Literature Research (1-6) Students conduct a literature search on some aspect of the biological sciences under the direction of their guidance committee, culminating in the submission of a review paper. Satisfies part of the degree requirements for the M.A. degree in biology. Usually offered every term. *Prerequisite:* M.A. candidate in biology.

09.797 Master's Thesis Research (1-6) *Prerequisite:* M.S. candidate in biology.

Business Administration

Management

Undergraduate Courses

10.352 Introduction to Management Information Systems (3) Information as an organizational resource, decision-making frameworks, transaction processing systems, decision support systems, external information systems, office automation, competitive information systems, accounting and financial applications, marketing applications, production applications, needs assessment, system design and implementation, organizational impacts, and social issues. A technology update is provided in hardware and software basics, database-management systems, and telecommunications. Usually offered every term. *Prerequisite:* 40.260 or 40.280, 14.240, 10.353, which may be taken concurrently, and upper-division standing.

10.353 Principles of Organizational Theory, Behavior, and Management (3) Current management theories, research, and practice. Course content represents a synthesis of behavioral sciences providing a broad framework for management. Topics include organizational goals and responsibilities, models, decision theory, planning control, organization, motivation, leadership, group behavior, conflict, and organizational change. Usually offered every term. *Prerequisite:* upper-division standing.

10.354 Business Applications of Computers /N (3) Principles of data management. Design of databases. Development of database applications with a database-management system. Usually offered every term. *Prerequisite:* 10.352 and upper-division standing.

10.355 Production/Operations Management /N (3) Fundamental concepts of operations management. Introduction to operations research and to management science and its interdisciplinary aspects. Basic elements of decision theory, inventory models, linear programming (L/P), production models, simulation, waiting lines, etc. Usually offered every term. *Prerequisite:* upper-division standing and all Kogod College requirements in statistics.

10.381 Principles of Human Resources Management (3) Understanding the principles and operations of personnel administration and industrial-relations systems in organizations by analyzing and applying theoretical concepts to functional situations. Usually offered every term. *Prerequisite:* upper-division standing.

10.382 Employee Participation in Decision Making (3) An analysis of the concepts and principles of union-management relationships through an emphasis of the historical,

legal, economic, social, and behavioral dynamics of union and management interactions in various settings. Usually offered every fall. *Prerequisite:* upper-division standing.

10.383 Topics in Human Resources Management (3) Uses problems and case histories to develop decision-making proficiency in the functional areas of personnel administration and industrial relations. Usually offered every spring. *Prerequisite:* 10.381 and upper-division standing.

10.384 Applications of Performance Appraisal (3) The course focuses on the function and design of performance appraisal systems as tools of professional development, coaching and counseling, merit-compensation determinations, and goal implementation. Students examine the assets and liabilities of alternative methods of performance-appraisal systems. Applications are oriented to the role of the personnel manager. Usually offered every spring. *Prerequisite:* 10.381 and upper-division standing.

10.386 Entrepreneurship (3) The entrepreneurship philosophy, attitudes, and characteristics. Entrepreneurship and new venture success and failure factors. Identifying and evaluating entrepreneurial opportunities. Developing a new venture business plan. Successfully managing the new venture. Applications cover creation and management of stand-alone ventures and of those developed within corporations. Usually offered every spring. *Prerequisite:* 11.300, 10.353, and 13.365 and upper-division standing.

10.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this catalog. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department.

10.452 Business Responsibility in American Society /A, S (3) The conceptual and historical framework in which the American firm performs as an institution of the community. The relationship between business responsibility and public policy. Emphasis on student participation and cases. Usually offered every term. *Prerequisite:* upper-division standing.

10.454 Managing Information for Business Decision Making (3) Use of computer-based modeling systems and computer graphics to support business decisions. Qualitative and quantitative aspects of business decision making, business decision support systems, decision insight systems and expert systems. Experience with business software application packages. Usually offered every fall. *Prerequisite:* 10.354 and upper-division standing.

10.455 Business Management Information Systems Practicum (3) Capstone course for undergraduate BMIS program. Design and implementation of a business management information system by student teams. Management of information systems function in business settings, other professional issues. *Prerequisite:* senior standing, 55.460, and completion of all BMIS requirements except 10.454 which may be taken concurrently.

10.458 Business Policy and Strategy (3) Integration of knowledge in functional areas of business and simulation of management experiences. Various methods of simulating a management environment are employed, including case studies and computerized management problems.

Usually offered every term. *Prerequisite:* senior standing and completion of all junior-level courses.

10.481 Wage and Salary Administration (3) Surveys and analyzes basic concepts of compensation administration in private sector organizations. The foundation for wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on compensation programs. Usually offered every fall. *Prerequisite:* upper-division standing.

10.482 Pension and Benefits Management (3) Analyzes management requirements for legally required benefits such as OASDI, health insurance, unemployment insurance, and worker compensation. Provides in-depth examination of social insurance programs, ERISA, and pension fund management. Usually offered every spring. *Prerequisite:* upper-division standing.

10.490 Independent Study Project in Business Administration (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

10.585 Equal Employment Opportunity (3) An analysis of labor-force demographics, study of the Civil Rights Act and amendments, and study of other discrimination-oriented legislation. The course focuses on providing equal employment opportunities in organizations, how to establish affirmative action programs, and how to evaluate the effectiveness of EEO in organizations. Offered irregularly. *Prerequisite:* upper-division standing for undergraduates.

Graduate Courses

10.604 Business and Society (3) Historic and contemporary relations of business to such societal factors as the legal and ethical environment, government regulation, economic and social trends. Company management of business and societal issues, including methods of influencing public opinion and the public-policy process. Usually offered every term.

10.606 Managerial Statistics (3) Statistical tools applied to the analysis and resolution of managerial problems with emphasis upon regression. Use of standard computer programs using Statistical Analysis System (SAS). Usually offered every term. *Prerequisite:* a course in calculus, or the Kogod College mathematics workshop.

10.608 Production and Operations Management (3) Quantitative methods of operations research (O.R.) models and production management applications. Problem identification, mathematical model construction, computer-oriented solutions, sensitivity analyses, and model validation. Conceptual understanding of the use of O.R. models in the decision-making process of production and operations management. Usually offered every term. *Prerequisite:* 10.606 or equivalent.

10.610 Organizational Theory and Behavior (3) Topics include authority and leadership, motivation and morale, work groups and group dynamics, communication, informal systems, planning and management by objectives, concepts of organizational development, organizational structure and processes, systems approach, decision

making, control systems, and organizational conflict and change. Usually offered every term.

10.611 Managerial Economics (3) Fundamental analytical tools of economics applicable to decision making. Research of empirical and theoretical studies and evaluation of their application to economic analysis in management. Usually offered every term.

10.612 Business Economics (3) Macroeconomic analysis and study of determinants of national income, output, employment, and price levels. National income accounting and classical as well as Keynesian economic models. Fiscal and monetary policy. Usually offered every term. *Prerequisite:* 10.611.

10.614 Operations and Systems Management (3) Techniques and concepts of operations and systems management. Operations strategies for productivity, demand forecasting, setting standards, capacity planning and master scheduling (PERT, CPM) facilities location and aggregate planning. Quality control, reliability, and maintenance management integrated into methods to evolve optimized solutions. Usually offered every term.

10.655 Management Information Systems (3) Decision-making frameworks, types of information systems, needs assessment, selection and evaluation, implementation, social and policy issues. Computer applications to business decisions. Usually offered every term. *Prerequisite:* 14.603 and 10.610.

10.657 Business Applications of Database Management Systems (3) Transaction-processing and information-reporting systems found in business organizations. A special emphasis on database management systems as a foundation for business reporting. Office information systems and management use of external database. Usually offered every spring. *Prerequisite:* 10.655.

10.658 Managing Information as a Corporate Resource (3) Managing the information-systems function within business organizations including strategic planning for BMIS, alternatives for delivering computer-based business applications, and information systems for corporate competitive advantage. Usually offered every fall. *Prerequisite:* 10.655, 11.601, and 13.605.

10.659 Applications of Business Decision Support Systems (3) Business decision-making theories, appropriate roles for various information technologies in support of large-scale, complex business decisions. Software to facilitate the monitoring of external events, forecasting and planning, decision modeling and evaluating alternatives and risks. Expert systems applied to business decisions and information support for unstructured decisions. Usually offered every spring. *Prerequisite:* 10.608 and 10.655.

10.660 Business Applications Development Practicum (3) Capstone course for graduate BMIS program. Design and implementation of business management information systems by student teams. Case studies of successful and unsuccessful system development projects. Information requirements analysis in business environment. Overview of systems development process. Usually offered every fall. *Prerequisite:* 10.657 and 10.659.

10.671 Issues in Human Resources Management (3) Functional issues and current developments in administering the personnel resources of contemporary private-sector organizations. Usually offered every fall.

10.681 Wage and Salary Administration (3) Analysis of concepts and practices of compensation administration in organizations. Wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on the wage and salary administrator and on compensation programs. Usually offered every fall.

10.682 Seminar in Pension and Benefits Management (3) Analyzes the Social Security Act and its offshoots as applied to private, single, and multiemployer plans, ERISA, OASDI, health insurance, unemployment insurance, and worker compensation. Provides skills in pension-fund management. Usually offered every spring.

10.684 Seminar in Performance Appraisal (3) Reviews performance-appraisal systems as tools of the management process. The various performance-appraisal techniques, role of rater and rated, and the organizations are examined during this comprehensive review. Current research in performance appraisal is emphasized and discussed. Usually offered every spring.

10.686 Management-Union Relations (3) Explores the nature of the collective bargaining system in the United States and the parties having a vital interest in the system. The course deals primarily with formal organizations designed to represent the interests of employers, workers, and the general public. It presents historical background, current practices, and future directions of unions; management strategies in dealing with unions; and the collective bargaining process. Usually offered alternate falls.

10.690 Independent Study Project in Business Administration (1-6) *Prerequisite:* authorization of instructor, department chair, and associate dean

10.692 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication.

10.694 Training and Development Seminar (3) Current problems and issues in personnel training and development at all organizational levels, with emphasis on the middle management level.

10.695 The Legal Environment of Human Resource Management (3) Examines the legal regulation of collective bargaining by analyzing legislative acts, judicial decisions, and administrative determinations that define the rights and govern the behavior of employers and unions in contemporary industrial society. Usually offered alternate falls.

10.750 Entrepreneurship and New Venture Management (3) Entrepreneurship characteristics and success and failure factors. Sources of new venture ideas. Developing a new venture or start-up plan. Evaluating new venture ideas and the main competitive entry wedges. Successful strategies for managing and harvesting the new venture. Usually offered every fall. *Prerequisite:* 10.610, 11.601, 13.605, and 14.603.

10.755 Strategic Management (3) Unites the various majors and disciplines taught in the Kogod College of

Business Administration. Conceptual skills for integration of previously learned aspects of corporations. A framework for analyzing organizational problems. Strategic management concepts, research, and theories as they apply to organizational analysis. Analytical and decision-making skills are developed through the use of simulations and case studies. Usually offered every term. *Prerequisite:* completion of all graduate core course requirements; must be taken in a student's last semester.

10.758 Seminar in Management Planning and Control (3) Concepts and requirements of planning and control systems. Analytical tools required for output-oriented program structure. Application of measurements to management information systems with emphasis on interdependence between quantitative and behavioral fields. Comparison between market- and non-market-oriented budgetary processes. Usually offered every term. *Prerequisite:* completion of all first-stage M.B.A. courses or equivalent.

10.760 Seminar in Operations Analysis (3) Capstone seminar in the Operations Analysis and Information Systems major and involves real-time, on-going, real-life research projects. Students formulate and complete applications of management science techniques. Supervised research and discussions. Usually offered every spring. *Prerequisite:* 10.758.

10.792 Seminar in Industrial Relations Administration (3) Research into current problems, issues, and developments in industrial relations administration. Usually offered every spring.

10.795 Seminar in Human Resources Planning (3) Concepts and techniques of personnel resource planning, with special emphasis on projections of manpower requirements.

Marketing

Undergraduate Courses

11.300 Principles of Marketing (3) Introduction to marketing decision making in business and nonprofit organizations. Particular attention is devoted to analysis of customer needs; segmenting markets; and developing product, promotion, pricing, and distribution strategies. Relationships between consumers, business, and government are explored. Usually offered every term. *Prerequisite:* 19.100, 19.200, and upper-division standing.

11.301 Consumer Behavior (3) Study of marketing, psychology, sociology, and cultural anthropology to determine motivations for product purchases. A multimedia approach is used to illustrate the use of behavioral science theory to create new products and promotional campaigns. Students learn to analyze consumer decisions for products or services and to determine effectiveness of information provided by government and charitable organizations. Usually offered every term. *Prerequisite:* 11.300 and upper-division standing.

11.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. See description under Cooperative Education in this catalog. *Prerequisite:* 11.300, upper-division standing

and nine credit hours in business including any relevant business core courses specified by the department.

11.401 Marketing Research (3) Study of research tools used to aid marketing decision making. Considers definition of research problems, selection of projects, and analysis of data. Execution of a consumer survey is a major component of the course. Students use the computer to analyze research data. Usually offered every term. *Prerequisite:* 11.301 and 42.300 (may be taken concurrently).

11.402 Marketing Problems (3) Analysis of current marketing management issues. Students develop a marketing plan for an outside organization, analyze case studies, and participate in computer simulation exercises. Usually offered every term. *Prerequisite:* 11.401 which may be taken concurrently and senior standing; .

11.411 Promotion Management (3) The role of advertising, public relations, personal selling, and sales promotion in business. Emphasis on how promotional campaigns are planned, created, and budgeted, and how these campaigns can inform buyers, change attitudes, and increase sales. Usually offered every term. *Prerequisite:* 11.300.

11.412 Advertising Campaigns (3) Development of an advertising campaign for a client. Includes formulation of advertising strategy, media planning, media buying, creative execution, and campaign evaluation. Usually offered every term. *Prerequisite:* 11.300.

11.421 Sales Management (3) An introduction to professional sales force management. Designed to develop skills in planning the sales program, organizing the selling effort, and recruiting, training, and motivating the sales force. Usually offered every spring. *Prerequisite:* 11.300.

11.436 Retailing Management (3) Creation and management of retailing institutions. Topics include buying, merchandising, pricing, promotion, inventory management, customer service, and location decisions. Field trips to major retail establishments, guest speakers, and development of a plan for a new retail store are the major components of the course. Usually offered every fall. *Prerequisite:* 11.300.

11.490 Independent Study Project in Business Administration (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate Courses

11.601 Marketing Management (3) Examination of strategies used by marketing managers to solve business problems. Students learn to make marketing decisions by analyzing environmental constraints and market opportunities. Completion of case studies, analysis of actual business problems, and development of a strategic plan for a business are covered. Usually offered every term. *Prerequisite:* 10.611 and 14.603.

11.602 Consumer Behavior (3) Factors influencing consumer motivation and behavior. Consumer decision-making processes and their marketing implications. Students analyze the role of culture, personality, lifestyle, and attitudes in consumer decisions. Usually offered every

term. *Prerequisite:* 11.601 or permission of department chair.

11.603 Industrial and Government Markets (3) Study of markets for industrial goods and services. Emphasizes differences between consumer and industrial marketing, pricing strategies, distribution decisions, product development, and promotional decisions. Use of case studies and guest speakers. Usually offered every spring. *Prerequisite:* 11.601 or permission of department chair.

11.604 Marketing Research (3) Study of research principles used to solve marketing problems. Students, in cooperation with outside organizations, develop market studies, collect data, analyze data, and present a report to management. Research projects, guest speakers from research firms, and analysis of data using the computer are included in the course. Usually offered every term. *Prerequisite:* 11.601 and 10.606, or permission of department chair.

11.605 Promotion Management (3) Problems of managing promotional operations in the firm, including advertising, sales promotion, merchandising, personal selling, public relations, and institutional promotion (individually, and as part of strategically coordinated promotional programs) are approached from a managerial point of view. For students seeking careers in sales, advertising, or public relations. Usually offered every spring. *Prerequisite:* 11.601 or permission of department chair.

11.606 Marketing and Public Policy (3) Seminar course that explores marketers' responses to the changing legal and regulatory environment. Topics include the impact on marketing practice of copyright and trademark law; warranties; products liability; food and drug, product safety, and deceptive advertising regulations; and antitrust law. The course features prominent guest speakers who debate current issues with the class. Usually offered every spring. *Prerequisite:* 11.601.

11.607 Strategic Marketing (3) The strategic or long-range planning process is explored from the perspective of the marketing decision-maker. Interaction with other functional areas such as finance and production is emphasized. The course includes preparation of a strategic plan for a major firm and exposure to guest speakers. Usually offered every term. *Prerequisite:* 11.601 and 13.605 or permission of department chair.

11.690 Independent Study Project in Business Administration (1-6) *Prerequisite:* authorization of instructor, department chair, and associate dean

11.692 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication. *Prerequisite:* twelve graduate credit hours taken in residence, including 11.601.

International Business

Undergraduate Courses

12.300 Fundamentals of International Business (3) An introductory course that studies the nature and scope of international trade and investment, international institutions, the international monetary system and exchange

markets, and some of the major issues involved in the functional aspects of international business. Usually offered every term. *Prerequisite:* upper-division standing.

12.301 International Marketing (3) The concepts and practices of marketing across national borders and the adaptations to the marketing program required because of the different needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.300 and 12.300.

12.302 International Finance (3) The structure and nature of the international monetary system and the operation of exchange markets, foreign exchange exposure, and foreign capital markets. The cost of capital in an international context is also studied, as well as some of the major issues in international accounting, taxation, and banking. Usually offered every term. *Prerequisite:* 12.300 and 13.365.

12.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* upper division standing and nine credit hours in business including any relevant business core courses specified by the department.

12.401 Cultural Environment of International Business (3) The cultural factors affecting international business operations and their influence on the principal business functions of finance, marketing, procurement, production, public and external relations, and research and development. Usually offered every term. *Prerequisite:* 12.300.

12.404 Multinational Accounting Issues (3) Major differences in selected national accounting systems, comparative accounting practices, currency translation and consolidation of financial statements, problems with inflationary/deflationary currencies, transfer pricing, international financial disclosure, and multinational taxation issues. Usually offered every fall. *Prerequisite:* 14.241 and 12.300.

12.490 Independent Study Project in International Business (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

12.507 International Human Resource Management (3) Focuses on the components of international human resource management and how they are used by multinational corporations. Students examine international compensation systems, international recruiting policies, international labor relations issues, performance appraisal in the international environment, cross-cultural considerations, and safety and termination considerations. Usually offered every spring. *Prerequisite:* 12.300 or 12.600.

Graduate Courses

12.600 Manager in the International Economy (3) The practices and principles involved in conducting the functional aspects of business in an international context; includes the study of the nature, scope, and trends of international business as well as the international monetary

system, international agreements, and considerations resulting from the environmental differences between nations. Usually offered every term. *Prerequisite:* 10.611.

12.601 International Marketing (3) The strategic approach to marketing products and services across national borders, including the modification of the elements of the marketing program to meet the different market needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.601 and 12.600.

12.602 International Finance (3) Financial operation of the multinational firm, including the sources of funds, foreign investment decisions, and international transactions and taxation. Also included is a study of the related aspects of the international monetary system, foreign exchange markets, and international banking. Usually offered every term. *Prerequisite:* 12.600 and 13.605.

12.603 Comparative Management Systems (3) The study of business organizational structures and management procedures in different international environments and the applications of important foreign developments in management for U.S. business. Usually offered every spring. *Prerequisite:* 10.610 and 12.600.

12.605 Legal Issues of International Business (3) An introduction to the legal issues facing international business, including a study of the international legal process, minimum standard, national laws and aliens, jurisdictional conflicts, transnational reach of national laws, and international contracts for distribution, licensing, and joint ventures. Usually offered every term.

12.606 International Banking (3) A focus on both the theory and practice of banking in an international context; also examines the reasons for the expansion of international banking, the economic role and operations of international financial markets, the strategies and activities of international banks, and the managerial problems encountered by international banks. Usually offered every term. *Prerequisite:* 12.600 and 12.602.

12.690 Independent Study Project in Business Administration (1-6) *Prerequisite:* authorization of instructor, department chair, and associate dean

12.692 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication.

12.701 Seminar in International Business (3) Discussion of student research efforts on the conduct of international business in Western Europe, Latin America and the Caribbean, the Middle East and Africa, the Far East, or the Socialist countries. The research concentrates on the different business practices that are required because of the different cultural, economic, legal, and political environment of the region. Usually offered every term. *Prerequisite:* to be taken during the last semester of study for International Business majors.

Finance and Real Estate

Undergraduate Courses

13.212 Personal Finance (3) Investigation of the principles of personal financial management. Topics include budgeting, consumerism, taxes, credit, savings and savings instruments, insurance (life, health, automobile, fire, and property), housing, investments (stocks, bonds, mutual funds, annuities, and real estate), and estate planning. Usually offered every term.

13.365 Corporate Finance (3) Introduction to business finance, including global aspects; acquisition and use of short-term funds and long-term capital; overview of money and capital markets; management of asset, liability, and capital accounts; financial analysis and time value of money; cash, operation, and long-range budgeting; leasing; corporate securities; dividend policy; and cost of capital. Usually offered every term. *Prerequisite:* 14.241, 42.202 and upper-division standing.

13.370 Urban Development /S (3) Economic and other objectives in an urban society. The function of an urban economy and forces affecting urban development. Social change, market operations, and public facilities management. Rapid changes and associated land development. Economic base theory and theories of land development. Usually offered every term. *Prerequisite:* upper-division standing.

13.373 Real Estate Principles and Transactions (3) Principles and practices of listing real property, agreement of sale, and title transfer of ownership and interests. Drawing documents: contracts, deeds, leases, financing, and other instruments. Private and public property rights, liens, taxes, assessments, and other claims on real estate. Mathematical problems for license examination. Approved for the real estate salesperson examination. Usually offered every term. *Prerequisite:* upper-division standing.

13.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department.

13.460 Institute on Property Management I (0) Management of commercial and residential property. Rental values, neighborhood analysis, tenant selection, leasing, and tenant-owner relationships. Usually offered every fall. (IREM 301) *Note:* not open for credit registration. Has a special tuition rate and institute fee. For counseling, please consult the Real Estate Center.

13.462 Real Estate Appraisal Principles (0) A comprehensive overview of the valuation process. Principles of gathering and analyzing data to be used in the three approaches to value. For students entering the field of real estate appraisal and working with residential or commercial properties. Usually offered every fall during the first eight weeks. *Note:* not open for credit registration. Has a special tuition rate and institute fee. For counseling, please consult the Real Estate Center.

13.463 Residential Valuation (0) A practical foundation in residential valuation. Topics include: the residential appraisal process; site data and analysis; highest and

best-use analysis; improvements, inspection, and description; cost, income, and sales comparison approaches; special-purpose properties, including condominium, recreational, and residential; and short-form narrative reports and form reports. Usually offered every fall during the second eight weeks. *Prerequisite:* 13.462. *Note:* not open for credit registration. Has a special tuition rate and institute fee. For counseling, please consult the Real Estate Center.

13.464 Financial Markets and Institutions (3) The history, purposes, functions, and organizations of the short-term money market and long-term capital market. An integrated view of the participating institutions and the markets in which they operate, their investment constraints, and resulting portfolios. Usually offered every term. *Prerequisite:* 13.365.

13.468 Financial Decision Making (3) Investment, financing, and dividend-policy decisions of the financial manager. Case studies and problems are some of the tools used to enable the student to make and see the effects of financial decisions. Usually offered every term. *Prerequisite:* 13.365.

13.469 Investment Analysis (3) Investment objectives. Methods of appraising corporate equity, debt, and other securities. Portfolio theory and management, technical analysis, random walk theory, and the role of institutional investors. Case studies and computer simulation are used. Usually offered every term. *Prerequisite:* 13.365.

13.474 Real Estate Finance and Economics (3) Impact of the national economy on real estate; application of macroeconomics (GNP, consumer spending, inflation, interest rates, and other data) to housing and commercial property; mortgage market analysis, including ARMs and creative financing, secondary mortgage markets, MBSs, CMOs, and other new developments in real estate finance. Usually offered every term. *Prerequisite:* 13.365.

13.476 Real Estate Investment Strategy (3) Investment objectives, risks, and rewards. Resource characteristics and administration. Development decisions and analyses, mortgage finance, cost and availability of funds, location analysis, property analysis, and valuation. Capstone course for undergraduate real estate majors. Usually offered every term. *Prerequisite:* 13.474.

13.476 Basic Real Estate Law (3) A survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Rights, fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations are covered. Usually offered every spring.

13.490 Independent Study Project (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

13.571 Financial Futures and Options (3) Extensive analysis of debt and equity-based futures contracts. Pricing considerations and other characteristics of futures contracts, characteristics of future exchanges and futures

market participants, and applications of futures markets. Currency futures are considered to a limited extent. Options pricing and the nature and uses of options on stocks, stock indices, and debt instruments. Usually offered every spring. *Prerequisite:* undergraduate: senior finance or economics major with a B average or permission of department chair; graduate: 13.605 and one additional finance course.

Graduate Courses

13.605 Financial Management (3) An introduction to analytical techniques, such as ratios and present value, which form the basis of financial analysis. Emphasis on the corporate-asset investment decision including long-term capital budgeting, cash, inventory, and accounts receivable. An analysis of the financing media, capital and money markets, interest rates, risk-return determination, security valuation, cost of capital, dividend policy, and leasing. Includes global aspects of financial management. Usually offered every term. *Prerequisite:* 14.603 and 10.606.

13.634 Basic Valuation Procedures (0) Topics include land site valuation, cost approach, market data approach, and income approach. Usually offered every fall during the second eight weeks. *Prerequisite:* 13.462. *Note:* not open for credit registration. Has a special tuition rate and institution fee. For counseling, please consult the Real Estate Center.

13.635 Capitalization Theory and Techniques A (0) A comprehensive study of the principles of the income approach to value. Comparative methods and techniques of income capitalization are identified and explored to give the entry-level appraiser a practical working knowledge of the capitalization process. Usually offered every spring during the first eight weeks. *Prerequisite:* 13.462 and 13.534. *Note:* not open for credit registration. Has a special tuition rate and institution fee. For counseling, please consult the Real Estate Center.

13.636 Capitalization Theory and Techniques B (0) The mathematics of yield capitalization wherein the fundamentals of discounting processes are applied to various patterns of income and to future values. An introduction to investment value concepts for the appraiser involved in the valuation of income properties. Usually offered every spring during the second eight weeks. *Prerequisite:* 13.535. *Note:* not open for credit registration. Has a special tuition rate and institution fee. For counseling, please consult the Real Estate Center.

13.638 Case Studies in Real Estate Valuation (0) Designed to apply the principles, theories, and techniques presented in "Principles", "Procedures", and "Capitalization" courses in problem and case-study situations. Group-study methods are used to analyze and solve the case studies. Usually offered every fall during the first eight weeks. *Prerequisite:* 13.636. *Note:* not open for credit registration. Has a special tuition rate and institution fee. For counseling, please consult the Real Estate Center.

13.639 Valuation Analysis and Report Writing (0) Analysis of valuation situations and development of appraisal reports. A comprehensive case study will be used as the format for the course. For advanced students and practicing

appraisers. Offered irregularly. *Note:* not open for credit registration. Has a special tuition rate and institution fee. For counseling, please consult the Real Estate Center.

13.650 Advanced Financial Management (3) An in-depth exposure to long- and short-term corporate investment and financing decisions. Included are management of cash balances, credit and inventory, capital budgeting of fixed assets under risk and inflation, leasing, cost of capital, acquisition analysis, mergers, leverage, and asset redeployment strategies. Usually offered every term. *Prerequisite:* 13.605.

13.651 Financial Strategy (3) Techniques and tools used in the development, assessment and implementation of a firm's financial strategy. Financial strategies about capital acquisition, capital structure, and asset utilization are examined. Case analysis is used. Usually offered every fall. *Prerequisite:* 13.605.

13.655 Securities Analysis (3) Topics include investment instruments and their characteristics; securities markets and their operations, securities valuation principles and models, three step valuation procedure; aggregate market analysis, industry analysis, company analysis, technical analysis; efficient market hypothesis, options and futures. Usually offered every fall. *Prerequisite:* 13.605.

13.656 Portfolio Theory and Management (3) Portfolio theory and practice for managing equity and debt securities portfolios; portfolio construction, evaluation, and revision. Advanced topics on portfolio management such as portfolio insurance are covered. Usually offered every spring. *Prerequisite:* 13.605.

13.661 Institute on Property Management II (0) Advanced analysis of multi-unit apartments, office buildings, and shopping centers. Legal, tax, and financing aspects. Regional analysis and urban redevelopment. Creative management. (IREM 400) Usually offered every spring. *Prerequisite:* 13.460 or graduate standing. *Note:* not open for credit registration. Has an institution fee in addition to tuition. For counseling, please consult the Real Estate Center.

13.663 Institute on Property Management IV (0) Long-range residential, office, and retail property-management planning. Identifying and solving problems, market study, research and sources of information, applying procedures and solutions. (IREM 500) *Prerequisite:* 13.460 or permission of the program director. *Note:* not open for credit registration. Has an institution fee in addition to tuition. For counseling, please consult the Real Estate Center.

13.665 Financial Statement Analysis (3) Appraisal of prevailing techniques of statement analysis. Significance of generally accepted accounting principles. Development of analytic methods from the viewpoint of financial management. Usually offered every spring. *Prerequisite:* 13.605.

13.671 Financial Management of Depository Institutions (3) The determination of the financial structure and policies of individual depository institutions. Capital and dividend policies, investment policies, asset/liability management, and roles and effects of government regulation. Usually offered every fall. *Prerequisite:* 13.605.

13.678 Real Estate and Property Law (3) Survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Rights, fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations. Case study and research; field research. Usually offered every fall.

13.679 Real Estate and Land Economics (3) Principles of real estate and land economics as a foundation for real estate analysis. The study of real estate economics. Studies of residential and commercial development; public facilities and improvements. Location theory, economic base, location and project difficulties and opportunities, land values and uses, urban rehabilitation and restoration, and neighborhood change. Usually offered every fall.

13.683 Real Estate Analysis (3) Market studies, feasibility analysis, re-use studies, appraisal, and other types of analyses relating to demand and supply of real estate in local markets. Sources of information. Analysis of population and changing city, residential, and commercial real estate. Forecasting. Specific research on real estate sites and projects. Usually offered every spring. *Prerequisite:* 13.679.

13.684 Real Estate Finance and Mortgage Markets (3) Financing instruments and methods used in real estate. Sources and uses of private funds, mortgage markets, primary and secondary mortgage market-makers, and investment-type instruments. Alternative mortgage instruments and creative financing techniques. Selected case studies and research. Usually offered every fall. *Prerequisite:* 13.605.

13.690 Independent Study Project in Business Administration (1-6) *Prerequisite:* authorization of instructor, department chair, and associate dean

13.692 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication.

13.765 Seminar in Finance (3) Capstone seminar dealing with current issues and recent developments in corporate financial management, investments, and financial institutions. Extensive literature review and research project. Usually offered every fall and spring. *Prerequisite:* three advanced finance courses or permission of department chair.

13.776 Seminar in Real Estate and Urban Development (3) Capstone seminar dealing with problems of managing real estate resources and related business enterprises. Management of urban development in a changing environment. Decision making in an uncertain economy. Individual field-research projects. Required for all graduate real estate majors. Usually offered every spring. *Prerequisite:* 13.679, 13.684, or permission of department chair or director of Real Estate Center.

Accounting and Taxation

Undergraduate Courses

14.201 Business Law (3) The scope of business law, individual, business, and legal relationships. Legal concepts, philosophy, and functions. Federal and state court systems. Survey of contracts, sales, agency, business forms, and property. Introduction to negotiable instruments. Usually offered every term. *Prerequisite:* sophomore standing.

14.202 Advanced Business Law (3) Functions, form, and content of commercial paper. Law of real and personal property. Legal bibliography. Legal requirements of business. Case research. Usually offered every term. *Prerequisite:* 14.201.

14.240 Principles of Accounting I (3) Basic principles underlying financial statements. Assets, equities, and income measurement. Usually offered every term. *Prerequisite:* sophomore standing.

14.241 Principles of Accounting II (3) Continuation of 14.240. Introduction to fundamentals of management accounting for planning and control. Uses of accounting data. Usually offered every term. *Prerequisite:* 14.240.

14.340 Intermediate Accounting I (3) Valuation of assets and equities. Measurement of business income. Generally accepted accounting principles. Financial statements and analysis. Usually offered every term. *Prerequisite:* Completion of 14.240 and 14.241 with a C or better; and upper-division standing.

14.341 Intermediate Accounting II (3) Continuation of 14.340. Accounting issuances by the APB and FASB. Financial statements and analysis. Usually offered every term. *Prerequisite:* 14.340 and upper-division standing.

14.345 Cost Accounting (3) Uses of accounting data for planning, control, and decision making. Budgets and standard costs. Concepts and techniques. Usually offered every term. *Prerequisite:* 14.241 and upper-division standing.

14.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department. Permission of department chair.

14.443 Taxation I (3) Introduction to federal income taxation of individuals. Usually offered every term. *Prerequisite:* 14.241 and upper-division standing.

14.444 Taxation II (3) Selected topics in federal income tax for individuals, partnerships, and corporations. Specialized areas such as estates and trusts. Usually offered every term. *Prerequisite:* 14.443.

14.449 Auditing (3) Auditing objectives, standards, and procedures. Audit workpapers. Tests and sampling. Usually offered every term. *Prerequisite:* 14.340.

14.450 Introduction to Accounting Information Systems (3) Concepts and techniques of analyzing computer-based accounting information systems. Usually offered

every term. *Prerequisite:* 14.241 and 10.352 or permission of the department chair.

14.480 Accounting Theory and Problems (3) Accounting issuances of FASB and APB. General principles of theory. General price level and current value. Usually offered every term. *Prerequisite:* 14.341 or permission of department chair.

14.490 Independent Study Project in Accounting (1-3) *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

Graduate and Advanced Undergraduate Courses

14.547 Advanced Financial Accounting (3) Theory and practices of accounting for partnerships, business combinations, and consolidated financial statements. Advanced topics in financial accounting. Usually offered every term. *Prerequisite:* 14.341 or 14.641 or permission of department chair.

Graduate Courses

14.602 Legal Environment of Professional Accounting (3) A study of the legal environment of business with emphasis on aspects of business law of particular importance to professional accountants. Ethical, social, and political considerations as they affect business organizations and the practice of public accountancy are also emphasized. Usually offered every spring.

14.603 Accounting Concepts and Applications (3) Fundamentals, concentrating on the uses of accounting as a tool of management. The strengths and limitations of accounting as an information system. Topics selected from both financial and managerial aspects of accounting and focus on the underlying concepts of accounting, the role of accounting in management planning and control, and the usefulness of accounting data for evaluating the results of operations and making decisions. Usually offered every term.

14.604 Federal Income Taxation (3) A study of federal income tax laws relating to individuals, partnerships, and corporations. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.630 Legislative and Judicial Foundations of Income Tax (3) Legislative and judicial concepts common to all areas of income taxation. Emphasis on analysis of court decisions to trace the development of judicial doctrines. Subject areas: substance over form, characteristics of income, dispositions of assets, capital gains and losses, tax credits, limitations on business expenses and losses, tax accounting principles. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of program director.

14.631 Tax Research and Procedure (3) Thorough analysis of techniques for performing sophisticated tax research: looseleaf services, treatises, IRS sources, court decisions. Analysis of tax procedure: IRS organization; audit procedures; assessment, collection, and refund; limitations; penalties; responsibility in tax practice. Emphasis on practical applications. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of program director.

14.632 Estate and Gift Tax (3) Detailed analysis of the federal estate and gift taxes and an overview of the income taxation of estates and trusts (Subchapter J). Usually offered every fall. *Prerequisite:* 14.630 or 14.631 or permission of program director.

14.633 Corporation Income Taxation I (3) Income taxation of corporations and their shareholders: organization, capital structure, dividends and other nonliquidating distributions, redemptions, liquidations, taxation of S corporations. Usually offered every fall. *Prerequisite:* 14.630 or permission of program director.

14.640 Financial Accounting I (3) Conceptual framework, methodological approaches, and problematic applications of financial accounting theory. Emphasis on the relationship between generally accepted accounting principles and the preparation of financial statements. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.641 Financial Accounting II (3) A continuation of 14.640 with special emphasis on financial accounting issues and problems related to authoritative pronouncements of the APB and FASB. Income measurement, valuation of assets and equities, and financial reporting and analysis. Usually offered every term. *Prerequisite:* 14.640.

14.645 Managerial Cost Accounting (3) Uses of accounting data for managerial decision making. Concepts and techniques of planning and control relating to budgets, standard costs, and relevant costs. Cost accounting systems: job order and process. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.648 Legal Concepts of Business Organizations (3) An intensive introduction to law and the legal system. Usually offered every term.

14.649 Auditing Theory and Practice (3) Auditing objectives and procedures. Generally accepted auditing standards, audit tests, sampling procedures and reporting requirements. Professional ethics. Usually offered every term. *Prerequisite:* 14.640.

14.650 Accounting Information Systems (3) Concepts and techniques of analyzing, designing, and implementing accounting information systems. Evaluation of computer and non-computer-based information systems for organizations of various kinds. Usually offered every fall. *Prerequisite:* 14.603 and 10.655 or permission of department chair.

14.660 Governmental, Not-for-Profit, and Fiduciary Accounting (3) Municipal, state, federal government, and not-for-profit accounting and the traditional coverage of estates and trust and corporate reorganization and liquidation. Usually offered every spring. *Prerequisite:* 14.640 or permission of department chair.

14.670 Accounting for Multinational Operations (3) Basic concepts and technical issues in international accounting. A broad introduction to the international business dimension as a context for in depth study of accounting in a multinational environment. Topics include internationalization of accounting standards, currency translation problems, transfer pricing, and comparative

practices in reporting. Usually offered every spring. *Prerequisite:* 14.603.

14.690 Independent Study Project in Accounting (1-6)
Prerequisite: authorization of instructor, department chair, and associate dean

14.692 Cooperative Education Field Experience (3)
See description under Cooperative Education in this Publication. *Prerequisite:* permission of department chair.

14.739 Managerial Accounting and Business Policy (3)
Integration of managerial aspects of accounting, business policy, and the managerial functions of strategic decision making, planning, and control. Consideration of both quantitative and behavioral aspects. Case methodology. Usually offered every spring. *Prerequisite:* 14.641, 14.645, and permission of department chair.

14.740 Corporation Income Taxation II (3) A continuation of 14.633: accumulated earnings and personal holding-company penalty taxes, collapsible corporations, corporate reorganizations, carryover of corporate tax attributes, multiple corporations, and consolidated returns. Usually offered every spring and summer. *Prerequisite:* 14.630 and 14.633.

14.741 State and Local Taxation (3) Examination of the constitutional and practical constraints on taxing jurisdiction of state and local governments. Topics: conformity with federal law, apportionment of income, multistate and multinational corporation problems, transaction taxes, property taxes, death and gift taxes. Detailed analysis of the Uniform Division of Income for Tax Purposes Act (UDITPA). Offered irregularly. *Prerequisite:* admission to the graduate tax program or permission of program director.

14.742 Special Tax Topics (1-3) Selected specialized tax topics or analysis of current tax legislation. Topics might include taxation of banks, insurance companies, security transactions, tax exempt organizations, cooperatives, or natural resources. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of program director.

14.743 International Taxation (3) U.S. tax law related to investment by U.S. persons overseas and foreign persons in the United States. Specific topics include the foreign tax credit, Subpart F, PFICs, FSCs transfer pricing, FIRPTA, section 911, and the role of tax treaties. Usually offered every summer. *Prerequisite:* 14.630 and 14.633.

14.744 Advanced Topics in Tax Accounting and Procedure (3) A continuation of the tax accounting and procedure coverage in the core courses. Tax accounting: long-term contracts advanced inventory considerations. Procedure: written determinations and rulings, liens, crimes, judicial proceedings, mitigation of limitations. Offered irregularly. *Prerequisite:* 14.630 and 14.631.

14.745 Employee Benefit Tax Planning (3) Analysis of income tax aspects of compensation benefits for employees at all levels and for self-employed persons. Detailed consideration of qualified pension and profit-sharing plans, individual retirement accounts, Keogh plans, statutory and nonstatutory stock options, and other fringe benefits

(life insurance, medical plans, etc.). Offered irregularly. *Prerequisite:* 14.630.

14.746 Taxation of Real Estate Transactions (3) Income tax aspects of acquiring, operating, and disposing of investment and personal real estate. Detailed consideration of deductions (including ACRS), conventional and creative financing techniques, foreclosures and repossessions, subdivision, sale/leaseback transactions, tax-deferred exchanges, involuntary conversions, sale of a principal residence, and special problems of agricultural property. Usually offered every summer. *Prerequisite:* 14.630 or permission of program director.

14.747 Partnership Taxation (3) Income tax aspects of transfers to a partnership, distributions, withdrawal or death of a partner, dissolution, sales and exchanges of partnership interests, special partnership allocations, use of the partnership as a vehicle for investment syndication. Usually offered every term. *Prerequisite:* 14.630.

14.750 Tax Policy (3) Study of the economic, social, ethical, and political forces in the development of tax policy. Specifically addressed are alternative approaches to taxing income, the practical political environment of enacting tax legislation, and the international influences on U.S. tax policy. Usually offered every spring. *Prerequisite:* student should be in the final semester of the graduate tax program or have permission of program director.

14.751 Seminar in Business Tax Planning (3) Use of case methodology to integrate tax considerations with accounting, economic, managerial, and nontax legal considerations for planning corporate transactions. Topics: organization of a close corporation, dividends and other corporate distributions, corporate combinations, corporate liquidations, corporate divisions. Usually offered every fall. *Prerequisite:* 14.633 or permission of program director.

14.752 Seminar in Family Financial Planning (3) Use of case methodology to integrate income, estate, and gift tax implications with nontax legal considerations in establishing a financial plan within the family unit. Included is detailed consideration of income taxation of estate and trusts (Subchapter J). Topics: estate-planning legal mechanisms, charitable and family gifts, private foundations, disposal of business interests. Usually offered every spring. *Prerequisite:* 14.632.

14.780 Seminar in Accounting Theory (3) Development of accounting theory. Analysis of current accounting problems and review of relevant literature. Usually offered every spring. *Prerequisite:* 14.547 or permission of department chair.

14.797 Masters Thesis Seminar (3-6) Subject matter of the paper and scope of research are determined by the student in consultation with the appropriate graduate accounting faculty. Usually offered every term. *Prerequisite:* permission of department chair.

Chemistry

Undergraduate Courses

15.100 Chemistry for the Modern World /N 5:1 (3) A general introduction to chemistry leading to biochemistry and the chemistry of life. Study of the composition of materials, their structures and properties, related energy conversions, and the use of molecular genetic information. Questions of scientific inquiry and the scientific method in cultural and historical contexts are considered. Two hours of lecture each week and three hours of laboratory every other week. Usually offered every term. *Prerequisite:* completion of College Mathematics Requirement or concurrent registration in a course that has 41.150 Finite Mathematics as a prerequisite.

15.110 General Chemistry I /N 5:1 (4) A general introduction to chemistry: the scientific method; atomic structure; stoichiometry and chemical reactions; heat changes; electronic structure of atoms; molecular geometry; liquid, solid, gas, and solution chemistry. This course provides a sound basis in concepts, vocabulary, and analytical problem solving. Related laboratory work covers: the scientific method, measurements using scientific apparatuses, collection and manipulation of data, error analysis, and illustration of scientific principles. Two and a half hours of lecture and one hour of discussion each week. Three hours of laboratory work each week. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics course with 41.150 Finite Mathematics as a prerequisite.

15.200 Human Biochemistry /N 5:2 (3) The structures, functions, and energetics of the molecules found in human beings. The origin of life. Molecular aspects of health and nutrition, the biotechnological revolution and prospects for genetic engineering. Three hours of lecture and one hour of discussion each week. Usually offered every fall. *Prerequisite:* for General Education credit: 15.100 or 15.110 or 09.100 or 09.110.

15.210 General Chemistry II /N 5:2 (4) Topics covered: oxidation-reduction reactions, reaction rates, equilibrium and its relation to thermodynamics, acid-base chemistry and its practical applications, electrochemistry, molecular bonding theory, and nuclear chemistry. Related laboratory work covers: titration techniques, spectroscopic analysis, kinetics experiments, and introduction to qualitative and quantitative analysis. Two and a half hours of lecture and one hour of discussion each week. Three hours of laboratory work each week. Usually offered every spring and summer. *Prerequisite:* 15.110.

15.220 Environmental Chemistry /N 5:2 (3) General discussion of the chemistry of our environment, including description of the ideal unpolluted environment and a historic view of pollution. Classes and interactions of pollutants with the environment. Emphasis is placed on understanding the chemistry of pollutants and how they affect our quality of life. Usually offered every spring. *Prerequisite:* for General Education credit: 15.100 or 15.110 or 09.100.

15.230 Earth Sciences /N 5:2 (3) Combines geology, geophysics, and geochemistry in describing the evolution

of our planet, the deep structure of the earth, its plate tectonic evolution, and interaction of the crust with the hydrosphere, biosphere, and atmosphere. Three hours of lecture each week with occasional laboratory demonstrations and field trips. Usually offered every fall. *Prerequisite:* for General Education credit: 15.100 or 15.110 or 51.100 or 51.105 or 51.110. *Note:* not open to students who have taken 15.103 Earth Sciences.

15.310 Organic Chemistry I (3) Systematic treatment of hydrocarbons, alkyl halides, alcohols, carbonyl compounds, acids, and their derivatives. Ionic and free radical reactions and stereochemistry. Three hours of lecture and one hour of seminar. Usually offered every fall and summer. *Prerequisite:* 15.210. Must be taken concurrently with 15.312.

15.312 Organic Chemistry I Laboratory (1) Laboratory theory and practice in synthesis, separation, and purification of organic compounds. Introduction to modern separation techniques including thin-layer, column, and gas chromatography. Usually offered every fall and summer. *Prerequisite:* concurrent registration in 15.310.

15.320 Organic Chemistry II (3) Aliphatic and aromatic compounds and electrophilic substitution; spectral methods; and nitrogen compounds and their derivatives. Introduction to polyfunctional compounds including amino acids, carbohydrates, lipids, and nucleic acids. Three hours of lecture and one hour of seminar. Usually offered every spring and summer. *Prerequisite:* 15.310. Must be taken concurrently with 15.322.

15.322 Organic Chemistry II Laboratory (1) Multistep syntheses. Synthesis of polyfunctional compounds. Introduction to infrared and nuclear magnetic resonance spectra. Qualitative organic analysis. Four hours of laboratory. Usually offered every spring and summer. *Prerequisite:* must be taken concurrently with 15.320.

15.350 Quantitative Analysis (3) Theory of acid-base, complexation, precipitation, and redox equilibria. Volumetric and gravimetric analyses. Separations. Statistical analysis of data. Separation and analysis of complex mixtures. Usually offered every fall. *Prerequisite:* 15.210 and 41.221. Must be taken concurrently with 15.351.

15.351 Quantitative Analysis Laboratory (2) Practice in classical analytical methods of analysis, including precipitation titrations and gravimetric analysis; neutralization titrations and potentiometric methods; oxidation, reduction, and complex formation titrations; and electrochemical methods. Computer-assisted statistical analysis of data. Six hours of laboratory. Usually offered every fall. *Prerequisite:* must be taken concurrently with 15.350.

15.390 Independent Reading Course (1-6)

15.398 Honors: Junior Year (1-3) Independent chemical laboratory research project under the direction of a faculty adviser. Progress reports may be required at the discretion of the adviser. Usually offered every fall. *Prerequisite:* 15.320/15.322, concurrent registration in 15.507, and permission of department chair and university honors director.

15.399 Honors: Junior Year (1-3) See description of 15.398. Usually offered every spring and summer. *Prerequisite:*

15.320/15.322, 15.507, a grade of B or better in 15.398 if taken, and permission of department chair and university honors director.

15.410 Physical Chemistry I (3) Macroscopic theories of the behavior of molecules: laws of thermodynamics, heat pumps and entropy; phase and chemical equilibria; solutions; noncovalent interactions; transport phenomena. Usually offered every fall. *Prerequisite:* 15.210, and prior or concurrent registration in 41.223. Should be taken concurrently with 15.411.

15.411 Physical Chemistry I Laboratory (2) Experiments in thermodynamics to accompany 15.410. Six hours of laboratory. Usually offered every fall. *Prerequisite:* must be taken concurrently with 15.410.

15.420 Physical Chemistry II (3) Microscopic theories of the behavior of molecules: rates and mechanisms of chemical reactions; quantum mechanics of model systems; atomic and molecular structure; spectroscopy; statistical thermodynamics. Usually offered every spring. *Prerequisite:* 15.410. Must be taken concurrently with 15.421.

15.421 Physical Chemistry II Laboratory (2) Experiments in chemical kinetics and spectroscopy to accompany 15.420. Six hours of laboratory. Usually offered every spring. *Prerequisite:* must be taken concurrently with 15.420.

15.460 Instrumental Analysis (3) Theory of optical and electroanalytical methods, including spectrophotometry, fluorimetry, spectrography, and flame and atomic spectroscopy; ion-selective electrodes, polarography; amperometry; mass spectrometry; chromatography; electrochemistry; radiometric techniques; isotope dilution; and neutron activation analysis. Analysis of errors. *Prerequisite:* 15.350 and 41.222; must be taken concurrently with 15.461.

15.461 Instrumental Analysis Laboratory (2) Practice in modern methods of instrumental analysis including atomic absorption and emission spectroscopy; gas and high pressure liquid chromatography; nuclear magnetic resonance, ultraviolet, visible, infrared, and fluorescence spectroscopy; and measurements with ion selective electrodes. Six hours of laboratory. Usually offered every spring. *Prerequisite:* must be taken concurrently with 15.460.

15.490 Independent Study Project in Chemistry (1-6)

15.491 Internship (1-6)

15.498 Honors: Senior Year (1-3) See description of 15.398. Usually offered every fall. *Prerequisite:* 15.420/15.421, 15.460/15.461, prior or concurrent registration in 15.507, a grade of B or better in 15.399 if taken, and permission of department chair and university honors director.

15.499 Honors: Senior Year (1-3) See description of 15.398. A senior thesis must be written and the results of research presented at a departmental seminar. Usually offered every spring. *Prerequisite:* a grade of B or better in 15.498 and permission of department chair and university honors director.

Graduate and Advanced Undergraduate Courses

15.501 Principles of Analytical Chemistry (3) For beginning graduate students. Spectroscopic and chromatographic techniques, electrochemistry, and data treatment. Two hours of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* 15.350.

15.506 Human Physiological Chemistry (3) Cell structure, structures and functions of amino acids, peptides, and proteins. Characteristics of blood, hemoglobin, and enzymes. Central metabolism and bioenergetics. Neurotransmission and muscle contraction. Metabolism of carbohydrates, fatty acids, lipids, and amino acids. Hormonal regulation. Experiments coordinated with the lectures. Two hours of lecture and two hours of laboratory. Usually offered every spring. *Prerequisite:* 15.210 or permission of the director of the Health/Fitness Management Program. *Note:* May not be used to fulfill requirements in either chemistry or biology graduate degree programs.

15.507 Chemical Literature (1) Abstracts, journals, patents, and other sources. Practice in conducting library and on-line computer literature searches. One hour of lecture and occasional laboratory sessions. Usually offered every fall. *Prerequisite:* 15.320.

15.520 Advanced Organic Chemistry I (3) Principles of physical organic chemistry. Bonding and conformational analysis; nucleophilic substitution at carbon; elimination and addition reactions; carbene chemistry; and cycloaddition reactions. Usually offered every fall. *Prerequisite:* 15.420.

15.521 Advanced Organic Chemistry II (3) Synthetic and mechanistic aspects of the chemistry of carbonyl compounds. Acylations, alkylations, and other condensations; oxidation and reduction reactions. Application of orbital symmetry correlations to organic reactions. Usually offered every spring. *Prerequisite:* 15.520.

15.522 Interpretation of Spectra (3) Practical interpretation of ultraviolet, infrared, nuclear magnetic resonance, and mass spectra for organic chemists and biochemists. Elucidation of structures and kinetic processes. Usually offered every spring. *Prerequisite:* 15.420.

15.525 Problem Solving in Organic Chemistry (1) Provides experience in solving problems in mechanistic and synthetic organic chemistry for graduate students planning to take comprehensive examinations in organic chemistry. Usually offered every fall. *Prerequisite:* 15.520 and 15.521.

15.546 Thermodynamics and Statistical Mechanics (3) Macroscopic and microscopic theories of the properties and interactions of molecules: laws of thermodynamics; phase transitions; solutions; colligative properties; ionic solutions and polyelectrolytes; statistical thermodynamics; quantum statistics. Usually offered alternate years. *Prerequisite:* 15.420.

15.550 Advanced Inorganic Chemistry (3) Electronic structure of atoms, periodic trends, bonding and structure of covalent compounds, electronegativity, bonding and structure of coordination complexes, acids and bases, organometallic chemistry, and bioinorganic chemistry. Usually offered every fall. *Prerequisite:* 15.420.

15.551 Topics in Inorganic Chemistry (3) Molecular symmetry, transition metal spectra, mechanisms of inorganic reactions, boron chemistry, organometallic chemistry, inorganic polymers, bioinorganic chemistry, and energy conversion. Usually offered alternate springs. *Prerequisite:* 15.550.

15.560 Biochemistry I (3) Water and hydrogen bonding. Structures and functions of amino acids, peptides, proteins, and nucleic acids. Introduction to molecular genetics and genetic engineering. Hemoglobin, allostery, and sickle-cell anemia. Enzyme kinetics and mechanisms. Enzyme evolution and regulation. Protein activation in digestion, blood clotting, and the immune response. Membrane structures and functions. Metabolic principles, bienergetics, and glycolysis. Three hours of lecture and one hour of seminar. Usually offered every fall. *Prerequisite:* 15.320.

15.561 Biochemistry II (3) Mitochondrial compartmentation and functions, Krebs cycle, electron transport, and oxidative phosphorylation. Mitochondrial pumps and membrane transport. Metabolic pathways and hormonal regulation. Further consideration of DNA organization, replication, mutation, repair, expression, and movement. Viruses. Immunoglobulin structure and diversity. Biotechnological methods. Three hours of lecture and one hour of seminar. Usually offered every spring. *Prerequisite:* 15.560.

15.562 Biochemistry I Laboratory (2) Experiments coordinated with the material taught in 15.560. Volumetric analysis, temperature effects on buffers, and computer-assisted data reduction. Amino acid structure determination using C-13 NMR spectroscopy. Peptide sequencing employing paper chromatography. Computer-assisted modeling of protein structures. Blood hemoglobin clinical analysis. Luciferin-luciferase bioluminescence assays of ATP. Spectrophotometric assay and computer-assisted analysis of enzyme kinetics and inhibition of chymotrypsin. One hour of lecture and three hours of laboratory. Usually offered every fall. *Prerequisite:* must be taken concurrently with 15.560.

15.564 Biochemistry III (3) Organization, replication, repair, expression, and movement of procaryotic and eucaryotic DNA. Viruses. Immunoglobulin structure and diversity. Membranes, receptors, and information transfer. Oncogenes. Biotechnology methods and applications of DNA restriction, sequencing, cloning, and probing. Monoclonal antibody production and applications. Usually offered alternate falls. *Prerequisite:* 15.561.

15.570 Computers in Chemistry (3) Introduction to applications of electronic computers in chemistry. Practice in using IBM and Macintosh personal computers. Applications include statistical analysis of data, simulation and modeling. Algorithms, flow charts, and programming in Pascal. Communication between mainframe and microcomputers. Use of on-line and optical disk chemical information data bases. Three hours of lecture with occasional laboratory sessions. Usually offered alternate falls. *Prerequisite:* 15.320 and 40.260 or 40.280.

15.590 Independent Reading Course in Chemistry (1-6)

Graduate Courses

15.610 Advanced Analytical Chemistry (3) Modern techniques, including ion-selective electrodes, fluorescence and phosphorescence analysis, atomic absorption spectrometry, far infrared spectroscopy, nuclear magnetic resonance, microwave spectroscopy, nuclear quadrupole spectroscopy, electron and photoelectron spectroscopy, neutron activation analysis, and the use of computers. Usually offered alternate falls. *Prerequisite:* 15.460.

15.618 Special Topics in Analytical Chemistry (3) Presentation of current research activity. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 15.610.

15.628 Special Topics in Organic Chemistry (3) Woodward-Hoffman Orbital Symmetry Correlation Rules and their application; organic photochemistry; heterocyclic chemistry; applications of NMR to the study of rates of dynamic processes. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 15.521.

15.642 Chemical Kinetics (3) Phenomenological and theoretical descriptions of the rates of chemical reactions; simple and complex mechanisms; fast reactions; flow systems; pharmacokinetics; catalysis; chain reactions and explosions; autocatalytic and oscillating reactions; chaos. Usually offered alternate years. *Prerequisite:* 15.420.

15.661 Enzyme Kinetics and Mechanisms (3) Computer-assisted modeling of protein structures. Chemical catalysis. Enzyme kinetics and computer-assisted determination of kinetic parameters. Approximation, distortion, covalent catalysis, general acid-general base catalysis, hydrogen bonding, and hydrophobic and electrostatic effects in enzyme mechanisms. Physical studies of enzymes. Isotope effects, pH effects, chemical modification, affinity labeling, and transition-state analog inhibition in studies taken from the current literature. Offered irregularly. *Prerequisite:* 15.561.

15.664 Chemistry of Carbohydrates (3) Elucidation of chemical structures, conformations, and reactions of monosaccharides. When pertinent, the biological activity of a given carbohydrate is considered. Usually offered alternate falls. *Prerequisite:* 15.560.

15.667 Current Biochemical Literature (1) Consideration of articles from recent issues of biochemical journals. This course is intended to foster discrimination in selecting papers, an analytical approach to reading, and the ability to retain the critical elements presented. These abilities should be of particular value in preparing for comprehensive examinations. May be repeated for credit but not within the same term; content must be different. Usually offered every spring. *Prerequisite:* 15.564.

15.670 Principles in Pharmacology (3) Basic principles including absorption, distribution, biotransformation and excretion of drugs. Structure-activity relationships and physical and chemical properties of drugs will be discussed. Comparative pharmacology, and therapeutic and toxicological drug effects also will be included. Usually offered alternate springs. *Prerequisite:* 15.550 Biochemistry I, a course of physiology or consent of instructor.

15.671 Principles of Toxicology (3) Basic principles of how chemicals, drugs, and natural products alter biological systems. Mechanisms and conditions under which harmful effects may occur are emphasized. Also considered are biological and chemical factors that influence toxicity; routes of administration; experimental design; special tests; statistical analysis of data; extrapolation of animal data to man; and regulatory aspects of toxicology. Usually offered every fall. *Prerequisite:* 15.320.

15.680 Chemical Mutagens and Carcinogens (3) Metabolic activation and deactivation, and mechanisms of action of polycyclic aromatic hydrocarbons, aromatic amines, azo and N-nitroso compounds, nitro aromatics, natural products, and alkylating agents. Short-term testing methods. Usually offered every spring. *Prerequisite:* 15.561; also, 15.581 and 15.564 are recommended.

15.681 Bioinorganic Chemistry (3) Metals in biochemistry, with emphasis on metal toxicity and metabolism of toxicants. Natural abundance, uptake, and storage. Diseases of deficiency and excess. Iron and copper in oxygen carriers and redox enzymes. Cobalt and group transfers. Zinc metalloenzymes. Nitrogenase. Group Ia and IIa metals. Toxic metals. Usually offered alternate falls. *Prerequisite:* 15.320; also, 15.550 and 15.560 are recommended.

15.682 Toxicological Testing (3) Toxicological testing procedures including fast tests such as the Ames Test and other short-term toxicological methods that are under development. The theoretical basis for the tests, as well as the theoretical and experimental limitations, are included. Usually offered every spring. *Prerequisite:* 15.320. Concurrent registration in 15.680 is recommended.

15.690 Independent Study Project in Chemistry (1-6)

15.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of nine credit hours of graduate course work in chemistry and permission of the coordinator of Cooperative Education.

15.700 Seminar in Chemistry (1) Selected topics. Preparation and presentation of a paper of professional quality. Usually offered every fall and spring. *Prerequisite:* 15.507 and twelve graduate credit hours of chemistry.

15.797 Master's Thesis Research (1-6)

15.799 Doctoral Dissertation Research (1-20)

Communication

Note: The program track or tracks of each undergraduate professional course are noted in the course descriptions below: (BJ) Broadcast Journalism, (PJ) Print Journalism, (PC) Public Communication, (VM) Visual Media. Communication and Media Studies courses are identified by (MS).

Undergraduate Courses

17.105 Visual Literacy / A 1:1 (3) Introduces students to ways of understanding visual images in a variety of con-

texts: art, media (including film, photography, television, graphic design), and drawing. Students learn about aesthetics as well as the production aspects of visual images; they discover intuitive dimensions of seeing as well as the major influence of culture on visual symbols and constructs. Usually offered every term. *Note:* not open to students who have taken 17.202 Visual Literacy.

17.200 Writing for Mass Communication (3) (BJ, PJ, PC, VM) A course stressing basic writing techniques for informing a mass audience. Intensive practice in writing for mass media. Required of all school majors. Usually offered every term. *Prerequisite:* 23.100, 23.101 or equivalent courses, typing skill, and permission of the school.

17.203 American Journalism (3) (BJ, PJ) Capsulizes the world of journalism by looking at the history of the craft and exploring current issues such as the power of newspapers and television, legal and ethical standards required for reporters, journalism as a social force, and the political impact of radio, television, newspapers, and news magazines. Usually offered every spring. *Prerequisite:* permission of the school.

17.204 Public Relations (3) (PC) The nature and practice of public relations in organizations. Employee relations, media relations, community relations, and relations with other publics. Usually offered every term. *Prerequisite:* permission of the school.

17.205 Understanding Mass Media / S 4:2 (3) Building on students' individual and collective experiences of mass media (print, film, radio, and television) this course analyzes American media institutions: their development, fundamental purpose, and structure; the economic and political controls they face; and their effect on us as individuals. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 57.105 or 65.100. *Note:* not open to students who have taken 17.100 Introduction to Mass Media.

17.270 How the News Media Shape History / S 2:2 (3) The impact that the print and broadcast news media have had on America. The role and value of a free press, always powerful and usually responsible. Topics range from how radical writers helped start the American Revolution to how today's reporters influence contemporary political events. Usually offered every term. *Prerequisite for General Education credit:* 29.100 or 53.105.

17.310 Public Speaking (3) (PC) Principles of effective speaking. Practice in preparing and presenting several types of public address. Usually offered every term. *Prerequisite:* permission of the school.

17.320 Reporting (3) (BJ, PJ) Fundamentals of news gathering, news writing, and news judgment for all media; study of news sources, fieldwork, research, and interview techniques. Usually offered every term. *Prerequisite:* core courses or permission of the school.

17.322 Editorial Policies and Methods (3) (PJ) Instruction and practice in editing. Copy editing, wire editing, and editorial judgment, headline writing, and newspaper design and layout. Usually offered every term. *Prerequisite:* core courses.

17.325 Feature Article Writing (3) (PJ) Study of feature articles for newspapers, syndicates, magazines, and specialized publications; practice in research, interviewing, and writing, marketing and publication of articles. Usually offered every term. *Prerequisite:* core courses.

17.333 Fundamentals of TV and VTR (3) (BJ) Procedures and techniques used in producing television news in the field and in the studio. Students are introduced to basics of lighting, audio techniques, video graphics, camera operations, field production and videotape editing. Laboratory. Usually offered every term. *Prerequisite:* core courses.

17.346 Audio-Visual Communication (3) (PC) Communicating through modern audio-visual media. Emphasis on understanding the media as well as the message. Students prepare materials and gain experience with audio-visual devices and systems. Usually offered every term. *Prerequisite:* core courses.

17.385 Broadcast Journalism I (3) (BJ) Writing, reporting, and editing news for radio. Production of minidocumentary. Laboratory. Usually offered every term. *Prerequisite:* 17.320.

17.390 Independent Reading Course in Communication (1-6)

17.392 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication.

17.401 Legal Aspects of Communication (3) (MS) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every term. *Prerequisite:* core courses.

17.410 Interpersonal Communication (3) Principles of interpersonal communication: communication models and systems; the role of perception in communication; verbal and nonverbal message elements; and communication barriers, breakdowns, and methods of improvement. Classroom exercises in interviewing techniques, small-group problem solving, and public speaking. Usually offered every term. *Prerequisite:* core courses.

17.425 Advanced Reporting (3) (PJ) Students are introduced to the various reporting techniques involved in writing about local and federal governmental operations. Students write local and federal government news stories. Usually offered every term. *Prerequisite:* 17.320.

17.428 Broadcast Journalism II (3) (BJ) Writing, reporting, editing, and producing news for television. Production of television field reports and newscasts on closed circuit television. Laboratory. Usually offered every term. *Prerequisite:* 17.333 and 17.385; must be taken concurrently with 17.432.

17.430 Basic Photography (3) (VM, PJ, PC). Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.630. Usually offered every term. *Prerequisite:* junior standing, 17.105 or permission of the school.

17.431 Basic Visual Media Production (3) (VM) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and small format video that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.631. Usually offered every term. *Prerequisite:* junior standing, 17.105 or permission of the school.

17.432 Television Field Reporting (3) (BJ) Advanced television news production. Students write, tape, edit, and produce field reports and a television minidocumentary. Usually offered every term. *Prerequisite:* 17.333 and 17.385; must be taken concurrently with 17.428.

17.433 Broadcast Delivery (3) (BJ) Concentrated analysis of and training in the delivery of news on radio and television. All facets of broadcast news styles and performance are examined and developed. Obstacles to effective communication of news by the voice are identified, and remedies are attempted. Meets with 17.633. Usually offered every term. *Prerequisite:* permission of the school.

17.434 Location Film and Video Production (3) (VM) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Usually offered every term. *Prerequisite:* 17.430 and 17.431.

17.435 Introduction to Studio Television (3) (VM) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* 17.105 or permission of school.

17.437 Public Relations Media (3) (PC) Principles and practice in the major forms of media used in public relations: news releases, broadcast publicity and public service announcements, planning and publicity for special events, feature stories, house publications, and institutional advertising. Usually offered every term. *Prerequisite:* core courses.

17.442 Media Training (3) (PC) Principles of effective presentation and written preparation for a variety of types of media appearances. Student exercises are videotaped and critiqued in class for a television talk-show appearance, participation in a television issues forum, an individual television speech presentation, a television press interview, and a televised spokesperson news conference. Usually offered every term. *Prerequisite:* junior standing.

17.446 Public Relations Case Studies (3) (PC) Case studies and typical public relations problems in industry, labor, education, government, social welfare, and trade associations. Planning and preparation of communications materials for various media; application of public relations techniques. Usually offered every term. *Prerequisite:* 17.204.

17.450, 17.451 Washington Journalism Semester Seminar I (4), II (4) 17.450 and 17.451 are taken together, and explore journalism as it exists and is practiced in

Washington, D.C. The seminar studies the people, institutions, and issues of Washington journalism with weekly guest speakers, field trips, readings, review sessions, and lectures. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester. *Note:* not open to American University communication majors.

17.452 Washington Journalism Semester Internship

(4) Professional communication work in an off-campus organization, providing the student with experience not available in the curriculum. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester. *Note:* not open to American University communication majors.

17.456 Sound Film Production (3) (VM) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.656. Usually offered every term. *Prerequisite:* 17.434 and 17.482.

17.464 Directing Talent for Television (3) (VM) For students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.664. Usually offered every term. *Prerequisite:* 17.434, 17.435, and 17.482.

17.470 Organizational Communication (3) (PC) Communication practices in complex organizations. Formal and informal communication networks and problems associated with each. Forms of communication used in organizations. Field research project in a Washington-area organization. Offered irregularly. *Prerequisite:* permission of school.

17.472 Nonverbal Communication (3) (PC) Current research on the influence of biorhythms, artifacts, facial expressions, gestures, posture, space, time, and touch on human interaction. Opportunities for analysis and application of learned principles through in-class exercises, simulations, videotaped sessions, and off-campus field research. Usually offered every fall. *Prerequisite:* permission of school.

17.475 Group Communication Management (3) (PC) Current research on leadership, problem solving, decision making, deviant behavior, communication networks, and discussion techniques in small groups. Opportunities for application in videotaped sessions, role-playing exercises, and field research. Recommended in junior year. Usually offered every term. *Prerequisite:* permission of school.

17.480 Public Communication Research (3) (PC) Application of survey research methods to selected problems in public relations. Preparation of a research project for a Washington-area client. Usually offered every term. *Prerequisite:* senior standing and permission of school.

17.482 Writing for Visual Media (3) (VM) Techniques of writing scripts for film and television productions. Students write treatments and screenplays for television, proposals for public service announcements, commercials and scripts for nontheatrical film and video productions. Usually offered every term. *Prerequisite:* 17.200 and 17.431.

17.486 Single Camera Video (3) (VM) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.686. Usually offered every term. *Prerequisite:* 17.434 and 17.482.

17.487 Advanced Production (3) (VM) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.687. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.456 or 17.464 or 17.486 or permission of instructor.

17.490 Independent Study Project in Communication (1-6)

17.491 Senior Internship (3) (BJ, PJ, PC, VM) Professional communication work in an off-campus organization appropriate to the student's school program, providing the student with experience not available in the curriculum. Usually offered every term. *Prerequisite:* senior standing, recommendation of adviser, and approval of the internship director; a grade point average of 2.50 is required in both the major and overall.

Graduate and Advanced Undergraduate Courses

17.502 Investigative Journalism (3) (MS) Introduces students to the history, purposes, power, and responsibilities of investigative journalism. Also introduces students to the specialized reporting and interviewing techniques of investigative reporting and requires students to develop these skills while participating in a group investigative journalism project. Usually offered every spring. *Prerequisite:* 17.320.

17.503 Mass Media and Society (3) (MS) The role of newspapers, magazines, radio, television, and motion pictures in society. Usually offered every term. *Prerequisite:* permission of the school.

17.508 The Media and Government (3) (MS) The president and the press, other Washington press corps-official relations, the quality of government news reporting and its effect on policy, issues of government information policy, control of the media, and journalists' First Amendment rights. Usually offered every spring. *Prerequisite:* permission of instructor.

17.509 Politics and the Media (3) (MS) The role of the mass media in the electoral process. Includes examination of candidates' use of the media to get elected and press and television reporting and analysis of political campaigns. Usually offered every term. *Prerequisite:* permission of the school.

17.511 History of Documentary Film (3) (MS) Development of the documentary tradition in film from 1900 to 1970. Critical analysis of its use in modern society. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered alternate falls. *Prerequisite:* permission of the school.

17.512 Television Documentary (3) (MS) A study of the intersection of the documentary form in film and television. A brief overview of the history of the documentary film with a concentration on the manner in which it was shaped by the advent of television. A concentrated study of network documentary production in the 1950s and 60s, with an emphasis on the *cinéma vérité* movement, leading to a study of how film and television were affected by *cinéma vérité* in the 1970s and 80s. Concluding unit is on the video documentary. Usually offered alternate falls. *Prerequisite:* permission of the school.

17.513 Producing Film and Video (3) (MS) Nontheatrical film marketing and production management. Preliminary research and development of the film proposal; preparation of treatments, contracts, and budgets; cost analysis of production; and relationships between aesthetics and expenses. Use of Washington as a laboratory for marketing experience, including actual client contact. Usually offered every spring. *Prerequisite:* permission of the school.

17.514 Censorship and Media (3) (MS) A survey of the history of censorship in the U.S. today in the newspapers, magazines, radio, movies, publishing, and television. International comparisons are drawn, and the problem of censorship in the schools is given special attention. Usually offered every fall. *Prerequisite:* permission of the school.

17.516 Special Topics in Visual Media and Culture (3) (MS) Rotating topics in the analysis of visual media and culture from a variety of perspectives, such as film and propaganda, film and ideology. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of the school.

17.521 Editorial Writing (3) (PJ) Supervised writing of editorials and opinion columns on current subjects; analysis of editorials and other commentary; editorial page policies and practices. Usually offered every spring. *Prerequisite:* permission of instructor.

17.523 Intermediate Photography (3) (VM) A refinement of photographic skills emphasizing a synthesis of craft and expression. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall (Photojournalism) and spring (Fine Arts Printing). *Prerequisite:* 17.430 or permission of instructor.

17.525 Advanced Photography (3) (VM) Extensive individual projects, critiques, and professional guest speakers. In-depth exploration of specific themes and techniques based on the goals of each student, and leading toward a professional-level portfolio. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 17.523 or permission of instructor.

17.527 History of Photography (3) (MS) The history of photography and its interrelationships with other visual arts and media. Emphasis is on modern photographers and on viewing work in Washington galleries and museums. Usually offered every fall. *Prerequisite:* permission of the school.

17.529 Large-Format Photography and Studio Lighting (3) (VM) A professional skills course which introduces the 4x5 view camera and studio electronic flash. Both

sections are integrated and explore the unique characteristics of the equipment through extensive technical and shooting assignments. Usually offered every fall. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.523 or permission of instructor.

17.530 Broadcast Operations and Management (3) (MS) The technical and historical development of American broadcasting, the managerial problems that affect operations of a broadcasting station, and the functional structure of American broadcasting. Usually offered every fall. *Prerequisite:* permission of the school.

17.532 Publication Layout and Design (3) (PC) Layout, typography, design, and printing in planning and producing newspapers, magazines, books, brochures, and folders. Usually offered every term. *Prerequisite:* permission of the school.

17.535 Special Topics in News Media (3) (MS) Alternating topics in the analysis and working methods of specialized areas of the news media. *Prerequisite:* junior standing and permission of the school.

17.538 Contemporary Media Issues (3) (MS) Examination of investigative reporting, the "new journalism," and other controversial developments affecting the news media. Assessment of how well the press informs the public. Usually offered every fall. *Prerequisite:* permission of the school.

17.540 American Newspapers (3) (MS) Survey of contemporary newspapers. Critical analysis of their editorial and advertising content. Alternative newspapers. Usually offered every fall. *Prerequisite:* permission of the school.

17.542 American Magazines (3) (MS) Survey of contemporary popular magazines. Critical analysis of their editorial and advertising content. The effect of magazines on American society. Usually offered every spring. *Prerequisite:* permission of the school.

17.545 Business and Economic Journalism (3) (MS) Current economic and business issues and their coverage by the news media. The performance of the media in providing the necessary depth of business and economic reporting. How journalists can improve their knowledge and skill. Usually offered every spring. *Prerequisite:* permission of the school.

17.546 Foreign Policy and the Press (3) The role of the American news media in the coverage of foreign policy issues. Philosophical issues include whether freedom of the press is adequately exercised in the foreign policy field and whether the national media sometimes serve as propagandists for the United States government. Students should be prepared to engage in adversarial debates over key issues. Usually offered every spring. *Prerequisite:* permission of instructor.

17.548 Speech Writing (3) (PC) Principles of speech writing. Practical field experience in preparation of speeches for a Washington-area client. Usually offered every fall.

17.558 History of Motion Pictures I (3) (MS) Origins and development of the theatrical feature-length fiction film from the nineteenth century to 1940. International survey

from an American viewpoint. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every fall. *Prerequisite:* permission of the school.

17.559 History of Motion Pictures II (3) (MS) History and development of the theatrical feature-length fiction film from 1940 to the present. International survey from an American point of view. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every spring. *Prerequisite:* permission of the school.

17.561 Advanced Writing for TV/Film (3) (VM) Emphasizes entertainment television and theatrical film scripting. Students are expected to write either a feature film script or television pilot script. Students also read and report in class on the works of major screenwriters. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.482/682 or 23.402/702 or permission of instructor.

17.570 Summer Film and Video Institute (1-3) A set of permanent and rotating topics related to current practices and trends in the motion picture, video, and television professions. Offered on weekends and evenings during May and June, the institute schedule allows students to select two or three courses in such areas as film and video production, direction, writing, design and management, post-production editing, and other related fields. Small classes and active participation are stressed. Some special acceptance restrictions. Usually offered every summer. *Prerequisite:* permission of Summer Film and Video Institute director.

17.590 Independent Reading Course in Communication (1-6)

17.599 New Communication Technology (3) (MS) The latest developments in, and the social and legal issues of, communication technology, including text-editing computer systems, word processors, cable, satellites, videotext, and teleconferencing. Usually offered every spring. *Prerequisite:* permission of the school.

Graduate Courses

Note: in courses for which there are both a .400 and .600 level, additional work is required of students at the .600 level.

17.601 Legal Aspects of Communication (3) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every fall. *Prerequisite:* permission of school.

17.617 Direct Media (3) Examination of the theory and practice of communication presentation through direct media, especially, but not exclusively, mail and telephone, to achieve political, fundraising, marketing, and social change objectives. Usually offered every summer. *Prerequisite:* permission of instructor, B.A. or B.S. degree.

17.621 Advanced Copy Editing (3) Students edit news and feature stories. Emphasis is on the dynamics of stories and the refinement of stories for publication. Usually

offered every fall. *Prerequisite:* admission to the graduate program in print journalism.

17.624 Principles and Practice of Journalism (3) An intensive introduction to news reporting and news writing. Includes extensive field work reporting on local government and federal government. Designed to prepare non-journalists for the full-time graduate program in journalism and public affairs. Usually offered every summer. *Prerequisite:* permission of instructor and admission to graduate program in journalism and public affairs.

17.630 Basic Photography (3) Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.430. Usually offered every term. *Prerequisite:* permission of program director.

17.631 Basic Visual Media Production (3) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and small format video that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.431. Usually offered every term. *Prerequisite:* permission of the program director.

17.632 Television Field Reporting (3) Instruction in production of television news packages. Merging of script, videotape, and graphics into the final product. Supervision of shooting and editing. Usually offered every term. *Prerequisite:* permission of the graduate program director.

17.633 Broadcast Delivery (3) The effective delivery of news on radio and television. Examination and analysis of individual student problems with extensive practice sessions to solve them. Meets with 17.433. Usually offered every term. *Prerequisite:* permission of the graduate program director.

17.634 Location Film and Video Production (3) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Students with prior experience may emphasize either film or video. Usually offered every term. *Prerequisite:* permission of the program director.

17.635 Introduction to Studio Television (3) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* permission of the program director.

17.636 Washington Reporting (3) Field coverage of people, organizations, and events in the Washington area concerned with domestic or international affairs. In-depth story development, feature writing, and editing. Usually offered every spring and summer. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.640 Public Communication Principles (3) Formal and informal models used to define, formulate, and design

the tasks involved in the creative and management activities of the public communication practice; ethics; public, social, and mass models of communication. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.642 Public Communication Management (3) The principles and functions of public-communication administration and the application of project-centered techniques. Strategies and implementation of tactics in a campaign setting; principles of planning, organizing, staffing, leading, and controlling; issues management. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.644 Public Communication Writing (3) Analysis of writing models in a variety of styles and media. Exploration of the relationship between audience expectations and communication style and content. Practical experience in the preparation of press releases, brochure copy, and newspaper and magazine articles. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.646 Public Communication Production (3) Advanced writing, programming, and production, involving various forms of contemporary media including commercial and in-house radio and direct mail, as well as newspapers, newsletters, and magazines. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.656 Sound Film Production (3) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.456. Usually offered every term. *Prerequisite:* 17.634, 17.635, and permission of graduate program director.

17.664 Directing Talent for Television (3) For students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.464. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

17.682 Writing for Visual Media (3) Techniques of writing scripts for film and television productions. Students write and criticize assignments. No production is involved in this course. Usually offered every fall. *Prerequisite:* permission of graduate program director.

17.686 Single Camera Video (3) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.486. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

17.687 Advanced Production (3) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.487. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.656 or 17.686 and permission of graduate program director.

17.690 Independent Study Project in Communication (1-6)

17.691 Graduate Internship (3) Professional communication work in an off-campus organization appropriate to the student's school sequence, which provides experience not available in the curriculum. Usually offered every spring and summer. *Prerequisite:* open to graduate students who have completed with distinction most or all of their sequence requirements. Recommendation of adviser and approval of internship director.

17.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

17.701 Graduate Seminar in Film Theory and Practice (3) The seminar focuses on the development of film theory and criticism. The work of Arnheim, Eisenstein, Kracauer, Bazin, Mitry, and Metz are studied as primary sources. The relationship between theory and production is examined and applied to analysis of specific films. Usually offered every spring. *Prerequisite:* full-time registration in the graduate program in Film and Video.

17.702 Master's Nonthesis Projects Seminar (1-6) Independent work toward project in lieu of thesis for students in the graduate Film and Video Program. Course involves regular critiques and discussion. Students usually enroll for two semesters, but may enroll for six credits in one semester with permission. Consult graduate program director for registration and participation requirements. May be repeated for credit within the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of faculty adviser and admission to the graduate program in Film and Video.

17.710 Seminar in Public Affairs (3) Current issues in the making of domestic, international, and economic public policy in Washington with emphasis on the role of the media. Includes a major in-depth reporting project. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in Journalism and public affairs.

17.715 Seminar in International Journalism (3) Focuses on the institutions and issues that make Washington an international journalism capital. Topics include arms control, world peace initiatives, U.S. relations with the Third World, the role of television in foreign policy news coverage. Guests from the State Department, the diplomatic corps, the foreign press corps. Usually offered in the spring. *Prerequisite:* admission to School of Communication graduate programs.

17.720 Seminar in Journalism (3) Examines ethical and economic issues affecting the press and initiates studies to add to the literature of media criticism. Students become acquainted with team journalism and magazine writing through in-depth projects focusing on press issues. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to graduate program in Journalism and public affairs.

17.721 Broadcast News I (3) Problems, policies, and practices of the broadcast news media. Emphasis on radio news writing, production, editing, reporting, and broadcasting. Production of audio minidocumentaries. Usually

offered every fall. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

17.722 Broadcast News II (3) Guidance and training in television news, including producing, writing, and editing for TV newscasts; reporting in the field and production of news packages. Team-produced TV documentaries or domestic or international issues. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.724 Reporting of Public Affairs (3) Advanced training in writing news as a Washington correspondent with emphasis on the coverage of domestic, international, and economic public policy issues. Conducted with 17.710. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.735 Communication Theory (3) Communication as an interactive social process. Relevance of social-science theory to the practice of public communication. Implications of public communication operations for the public interest. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.738 Research Methods in Communication (3) Survey of research in public communication, with particular attention paid to the methodologies employed. Emphasis on the understanding and appropriate selection of quantitative techniques. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.741 Communication Processes (3) The general processes of communication as applied to public communication. Interorganizational theory, persuasion, issue identification and analysis, conflict-cooperation assessment. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.744 Public Communication Seminar (3) Analysis of issues relevant to public communication such as current trends in audience analysis, professional and ethical responsibilities, political trends, and media-government controversies. A variety of perspectives are presented. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.797 Master's Thesis Seminar (1-3) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

Economics

Undergraduate Courses

19.100 Macroeconomics /S 4:1 (3) An introduction to the basic principles of macroeconomics, stressing topics of national income, unemployment, inflation, economic growth, depression, prosperity, international economics, economic development, alternative approaches to economics, and current issues and controversies. Usually offered

every term. *Note:* not open to students who have taken 19.101 Introduction to Economics I (Macro).

19.110 The Global Majority /S 3:1 (3) Introduction to the plight of less-developed countries, to alternative paths of development, and to the relationships between the more-developed and less-developed countries. The central theme of economic development is based on elementary economic theory. Equally important, human dimensions of development are emphasized through the use of novels and films from less-developed countries. Usually offered every term.

19.200 Microeconomics /S 4:2 (3) The basic principles of microeconomics and their applications. Supply and demand, operation of markets, consumer and enterprise behavior, competition and monopoly, income distribution, discrimination, and alternative approaches to economics. Usually offered every term. *Prerequisite:* 19.100. *Note:* not open to students who have taken 19.102 Introduction to Economics II (Micro).

19.300 Price Theory (3) Theory of relative prices of commodities and productive services under perfect and imperfect competition. Theory of the firm and consumer demand. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.301 Income Theory (3) Concepts and theory of national income determination, employment, and economic growth. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.302 Comparative Economic Systems (3) Analysis of different theoretical models of capitalist and socialist economies to understand the differences in their dynamics and effects on human well-being. Specific case studies of the differences between French, British, German, Swedish, and Japanese capitalism and between Soviet, Yugoslav, Chinese, Cuban, and Vietnamese socialism. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.303 Sex Roles in Economic Life (3) Analysis of the causes and effects of women's economic status. For economics students, an in-depth look at a particular application of labor economics; for women's studies students and majors in the other social sciences, the discipline of economics is brought to bear on their study of women's place in society. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.304 Labor Economics (3) The application of economic theory to current labor problems, domestic and foreign. Problems include wage theory and wage differentials, training policy, poverty, unemployment and underemployment, discrimination, productivity, industrialization, and union policies. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 19.300.

19.305 Quantitative Economics (3) Graphs, applications of calculus to economic problems and of linear algebra to input-output models, and introductory concepts of dynamic economic models. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 41.211 or 41.221.

19.306 Money and Banking (3) The role of money and credit in the economy. The structure and operations of commercial banks. Federal Reserve System and processes

and instruments of monetary policy. Nonbanking financial institutions and the structure of financial markets. Elements of monetary theory. "Flow of funds" and its use in monetary analysis. Usually offered every term. *Prerequisite:* 19.100.

19.307 Political Economy of Economic Development

(3) Resource constraints on world growth. The colonial legacy. Market and nonmarket growth models. New strategies of development. Development problems and country emphasis vary with the semester. Usually offered every term. *Prerequisite:* 19.100.

19.308 History of Economic Development (3)

Historical investigation of economic development using Europe and the Third World as case studies. Emphasis is on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* 19.100 and 19.200.

19.309 Public Economics (3)

The theory of taxation, public expenditure, and fiscal policy. Comparison of fiscal institutions in the United States and abroad. Government approaches to income redistribution and poverty: negative income tax, family allowances, etc. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.310 Introduction to Econometrics (3)

Review of the theory of economic statistics and statistical techniques. Emphasis on applying statistical models to economic data. Regression analysis and estimation of economic models. Topics include violations of the basic assumptions of the regression model, dummy variables, and analysis of variance. Index numbers and time series analysis. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 42.202.

19.311 International Economics /S (3)

Introduction to the economics of international trade and finance. Topics include why countries trade; commercial trade policies and their effects; balance of payments and the economics of foreign exchange markets; the operation and effects of fixed and flexible exchange rates. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.312 Industrial Organization (3)

Historical and contemporary analysis of industrial market structures and of the behavior of business firms in the United States. Topics include the rise of large corporations, monopoly power and its effects on economic and social welfare, control over large corporations, and governmental regulation of business. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.315 Urban Political Economy (3)

Economic functions of cities, pollution, metropolitan decentralization, urban growth and development, transportation, urban form and structure, housing markets and discrimination, land-use patterns, urban renewal, local government finance, and poverty. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.317 Political Economy (3)

Analysis of political economic theories including Veblen, institutionalists, neo-Ricardians, and modern Marxist and American radical dissenters from orthodox neoclassical economic theory, and application of those theories to problems, emphasizing the interdependence of political, economic, and social

forces in contemporary societies. Usually offered every term. *Prerequisite:* 19.100.

19.319 The Economic Development of the U.S. (3)

The nature and sources of economic growth, the institutional transformation associated with economic development, and the social and economic consequences of economic change in the U.S. from the colonial times to the present. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.320 History of Economic Ideas (3)

Exposition and analysis of development of economic theory. Emphasis on tracing evolution of economic theories out of specific historical contexts. Major figures and schools in economic thought from Adam Smith to the present. Attention given to the significance of having a separate body of thought called economics. Offered irregularly. *Prerequisite:* 19.100.

19.322 Marxist Economics (3)

Marxist methodology. The labor theory of value, accumulation, and crises. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.325 Social Choice and Economic Justice (3)

Conservative, liberal, and radical normative theories. Conflicts between efficiency, equity, and liberty. Major contemporary writers on the "just economy." Institutional constraints, the role of the market, voting paradoxes, and the nature of social choice. Concepts of economic rationality. Economic justice and contemporary policy. Usually offered every fall. *Prerequisite:* 19.200.

19.371 International Economics: Trade (3)

Theories of international trade and competitiveness; the effects of trade on the economics of importing and exporting countries; analysis of the effects of tariffs and quotas and other nontariff barriers. Other topics include multinational corporations; trade and development; customs, unions, and theory of the second best. Usually offered every fall. *Prerequisite:* 19.300.

19.372 International Economics: Finance (3)

Determination of income, employment, and inflation in open economies. International impact of monetary-fiscal policies under fixed and flexible exchange rates. Theories of exchange-rate determination. International debt and recycling problems. International monetary organization and reform. Usually offered every spring. *Prerequisite:* 19.301 or 19.306.

19.379 Economics of Energy, Resources, and Environment (3)

An introduction to the methods of establishing and evaluating current environmental policy, stressing the trade-off between resource extraction and development on the one hand and environmental quality on the other. Public policy is analyzed within the confines of economic growth, energy development, and environmental amenities. Designed for both majors and nonmajors. Usually offered every spring. *Prerequisite:* 19.300.

19.390 Independent Reading Course in Economics (1-6)

19.391 Washington Economic Policy Semester Internship (4)

Experience in pursuing directed research with an organization directly involved in the field of economic

policy. Usually offered every term. *Note:* students must also be enrolled in 19.393 and 19.394.

19.392 Cooperative Education Field Experience (3-9)
See description under Cooperative Education in this publication.

19.393, 19.394 Washington Economic Policy Semester Seminar I (4), II (4) Intensive examination of economic policy making in Washington. Encompasses theoretical analysis of economic problems, extensive readings, on-site discussions with economic policy-decision makers, preparation of papers, and presentation of alternative paradigms used to understand economic policy. Usually offered every term. *Note:* 19.393 and 19.394 must be taken concurrently.

19.398 Honors, Junior Year I (1-6)

19.399 Honors, Junior Year II (1-6)

19.490 Independent Study Project in Economics (1-6)

19.491 Internship (1-6)

19.498 Senior Honors I (3)

19.499 Senior Honors II (3)

Graduate and Advanced Undergraduate Courses

19.500 Price Theory (3) Theory of resource allocation and price system. Theory of demand, production, and distribution. Market structure and performance. Master's section usually offered every term. Ph.D. section usually offered in the fall. Screening exam. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.300 or 19.603, or permission of department.

19.501 Income Theory (3) Keynesian model of income determination. Consumption, investment, and interest rate theories. Keynesian and classical systems compared. Usually offered every term. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.301 or 19.603, or permission of department.

19.504 Economic Thought (3) Major figures in the history of economic thought, their social and economic thought and tools of analysis they created. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.505 Quantitative Analysis of Economic Models (3) Comparative static and comparative dynamic analysis of linear and nonlinear economic models. Usually offered every fall. *Prerequisite:* 41.221 or equivalent.

19.507 American Economic Development (3) The pace and structure of economic growth, the institutional transformations involved in economic development, and the social and economic consequences of economic change in the United States since 1600. Focus is on a variety of causal models and methods for explaining economic and institutional change. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.508 European Economic Development (3) Origins and development of capitalism in the Western world, especially in Britain. Emphasis on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* permission of department.

19.510 Cost Benefit and Planning (3) Theoretical, methodological, and empirical frameworks in the estimation of direct and indirect costs and benefits of development projects in the context of overall and sectoral planning activities; technical, financial, economic, institutional, and political analyses used to assess the validity of assumptions in project design and execution. Relationship between projects and policies, including sectoral, environmental, and budget impacts. Usually offered every spring. *Prerequisite:* 19.500 and 19.501.

19.511 Theory of Political Economy I (3) An analysis of the methodology of political economy. Value theory, the labor process, alienation, accumulation, and reproduction. Usually offered every fall. *Prerequisite:* 19.521 (may be taken concurrently).

19.512 Comparative Economic Systems (3) Three worlds of development: advanced market, advanced non-market, and developing areas. Meaning of economic systems and approaches to their study. Organized primarily around policy makers and their decisions, rather than around ideology or ownership, with emphasis on national goals and policy measures designed to achieve them. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.521 Mathematical Economic Analysis (3) Mathematical analysis of economic theory and problems. Constrained maxima and minima, linear and nonlinear programming, elementary differential and difference equations, and economic applications. Usually offered every term. *Prerequisite:* 41.221 and 41.222 or equivalent.

19.522 Econometrics (3) Theory of economic statistics and development of statistical models to be applied to economic data. Statistical criteria, hypothesis testing, multiple regression analysis, violations of the basic assumptions of regression analysis, and analysis of variance. Computer applications. Usually offered every term. *Prerequisite:* 19.505 or 19.521, which may be taken concurrently.

19.524 International Economics: Trade (3) Classical, neoclassical, and alternative theories of the gains from trade and the determination of the pattern of trade. Analysis of the welfare effects of trade policies. Modern theories of trade with increasing returns and imperfect competition; strategic trade policy. Usually offered every fall. *Prerequisite:* 19.500 or permission of instructor.

19.525 International Economics: Finance (3) International monetary economics and open-economy macroeconomics. Balance-of-payments adjustment, exchange-rate determination, capital mobility, and the international monetary system. Usually offered every spring. *Prerequisite:* 19.505 or 19.521, and 19.501.

19.531 Financial Markets (3) Institutional and theoretical aspects of creating, holding, and exchanging financial assets—money, credit instruments, and equities. The liabilities created by financial intermediaries and the role of government in financial markets. Usually offered every fall. *Prerequisite:* 19.500, which may be taken concurrently or equivalent.

19.532 Monetary Theory and Policy (3) Relation of money and other financial assets to prices, output, and

interest rates. Emphasis on the demand and supply of money and on government monetary policy. Usually offered every spring. *Prerequisite:* 19.505 or 19.521, and 19.501.

19.533 Development Banking (3) Public, private, and mixed development banks and their advantages and disadvantages. Relations of development banks to money and capital markets—competitiveness and compatibility with other financial institutions; sources of funds; use of funds; autonomous and syndicated operations; fund management and project supervision; loan repayment; and successive financing and development banking as instruments of promoting development. Usually offered every term. *Prerequisite:* 19.500 and 19.501.

19.541 Public Economics I (3) Rationale for the existence of the public sector. Theory of public goods and taxation. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, or permission of instructor.

19.542 Public Economics II (3) Analysis of public expenditure, cost-benefit analysis, budgeting, and fiscal policy. Usually offered every spring. *Prerequisite:* 19.541 or permission of department.

19.546 Industrial Organization (3) The structure of industrial markets and the behavior of business firms in the United States. Evaluation of welfare implications of current market structures, business behavior, and related government policies. Offered irregularly. *Prerequisite:* 19.500.

19.548 Economic Indicators (3) How the economy is measured, including GNP, inflation, unemployment, poverty, money supply, international trade, and balance of payments. An analysis of the methods and uses of economic statistics and how the way in which the economy is measured affects economic-policy debates. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.551 Theory of International Trade and Multinational Corporations (3) Theory of international specialization, world trade and development, commercial policy, balance of payments, and multinational corporations. Usually offered every fall. *Prerequisite:* 19.603 or 19.500.

19.552 Structure and Operation of the Soviet Economy (3) Rate of growth and changing structure of the economy with emphasis on the period since 1928. Conditioning factors. Planning techniques and procedures. International economic relations. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.555 Political Economy of Latin American Development: Theories versus Realities (3) Review of development theory. Structural problems and economic, social, and political institutions. External dependency and internal instability. Trade, foreign investment, aid, unemployment, population, and technology. Role of integration. Current fiscal and monetary policies. Usually offered every fall. *Prerequisite:* 19.307 and 19.301 or 19.300 or 19.603 or permission of department.

19.557 Economics of Central America (3) Analysis of recent economic development in Central America with an emphasis on the last twenty years. Major topics: industrial development, international trade, and the causes of cur-

rent economic crises. Emphasis on evolution and collapse of Central American Common Market and prospects for regional economic integration. Offered irregularly. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.560 Survey of Economic Development (3) Alternative theories of economic development: classical, neoclassical, Marxist, dependency, neo-Marxist, and growth and equity approaches. Case studies of capitalist and socialist development. Usually offered every term. *Prerequisite:* 19.300 or 19.603.

19.563 Economic Development: Theory and Applications (3) Neoclassical growth theory: Swann-Solow, Harrod-Domar, Lewis-Fei-Ranis. Analysis of issues such as inflation, technological transfer and choice, urban migration, population, employment, energy, agriculture, monetary and fiscal policy, international trade and investment. Usually offered every spring. *Prerequisite:* 19.560, 19.500, and 19.501.

19.564 Development Finance (3) Role of finance in economic development; analysis of the interaction between the financial sector and the rest of the economy; international finance, the debt crisis, and the structural adjustments and stabilization programs in the Third World. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, both of which may be taken concurrently.

19.571 Labor Economics: Theory (3) Contemporary theories of wages, employment, and prices; collective bargaining; the effect of collective bargaining on wages in the American economy; theories and empirical studies of wage differentials. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.574 Women in the Economy (3) A review of economic literature on the issues of sex roles in the workplace and the family, and of related policy issues. The course will prepare students to conduct their own economic research in the women's studies area. Topics covered include theories of the family and the workplace, the economics of the family, divorce, single parenthood, welfare reform, poverty among women. Usually offered every spring. *Prerequisite:* 19.603 (or 19.300 and 19.301) and 19.522 or equivalent courses.

19.579 Energy Economics, Resources, and the Environment (3) A systematic introduction to the policy issues associated with the changing role of energy and other resources in modern economics. Specifically, a microanalytic approach is used to evaluate complex policy problems associated with economic growth, energy development, and environmental externalities. For graduate students and advanced undergraduate economics majors. Offered irregularly. *Prerequisite:* 19.500 or 19.603.

19.590 Independent Reading Course in Economics (1-6)

Graduate Courses

19.603 Introduction to Economic Theory (3) The major analytical tools of price and income theory. No credit toward degrees in the Department of Economics. Usually offered every term. *Prerequisite:* 19.100.

19.611 Survey of International Economics (3) International trade theory and international monetary economics for graduate students in other departments. Emphasis on policy applications. No credit toward degrees in the Department of Economics. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.633 Development Project Cycle (3) Examines the development project from inception to ex-post evaluation, focusing on specific cases. Required of all students in the Development Lending track of the M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.510, 19.533, and 19.560.

19.634 Negotiating Development Loan Contracts (3) Workshop in development-projects contract negotiation for nonlawyers. Designed around specific projects. Required as terminal course for completion of work in Development Lending track of M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.533 and 19.510.

19.635 International Capital Markets Workshop (3) Case study in design of prospectus for a public bond issue or private placement in international capital market or both, with special emphasis on a full-scale exercise in steps leading from analysis of credit worthiness to completion and marketing of a bond issue. Usually offered every fall. *Prerequisite:* 19.533 and 19.510.

19.636 Foreign Assistance and Economic Development (6) Analyzes the impact of foreign assistance on the development of less developed countries. Limited to students in the Development Studies Program. Usually offered every spring and summer.

19.690 Independent Study Project in Economics (1-6)

19.691 Internship (1-6)

19.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

19.702 Macroeconomic Analysis I (3) Analysis of determinants of aggregate demand and supply and their interactions in closed and open economies. Theoretical and empirical analysis of sectoral relations including consumption, investment, government, foreign sector, and demand and supply for money. Usually offered every spring. *Prerequisite:* 19.505 or 19.521, which may be taken concurrently. Concurrent enrollment in 19.721 recommended.

19.703 Microeconomic Analysis (3) Theories of demand, market structure and performance, production and distribution, and supply. Introduction to general equilibrium analysis. Usually offered every fall. *Prerequisite:* 19.521, which may be taken concurrently.

19.711 Theory of Political Economy II (3) An analysis of advanced topics in value theory, crises and depressions, the theory of money, international capital flows, and distribution. Usually offered every spring. *Prerequisite:* 19.511 or permission of instructor.

19.712 Macroeconomic Analysis II (3) Recent developments in macrotheory (monetarist to new classical school) and macrodynamics, including theory of growth and fluctuation and theory of income distribution. Usually offered every spring.

tuation and theory of income distribution. Usually offered every spring.

19.713 Advanced Price Theory (3) An advanced treatment of general equilibrium; capital theory; income distribution theory; welfare and public policy. Usually offered every spring. *Prerequisite:* 19.703, and 19.505 or 19.521. Concurrent enrollment in 19.721 recommended.

19.721 Advanced Mathematical Economic Analysis (3) Systems of difference and differential equations, dynamic optimization techniques such as calculus of variations and optimal control theory, and economic applications. Usually offered every spring. *Prerequisite:* 19.521.

19.722 Statistical Foundations of Econometrics (3) Probability topics in distribution theory. Methods of estimation and hypothesis testing. Selected topics in linear algebra. Usually offered every fall. *Prerequisite:* undergraduate statistics, 41.211 or knowledge of integral calculus, and 19.521.

19.723 Econometric Methods (3) Multivariate regression models and the variations on the standard model, including serial correlation, heteroskedasticity, multicollinearity, and stochastic regressors. Estimation and identification in simultaneous equation models is also covered. Selected topics as time permits. Usually offered every spring. *Prerequisite:* 42.502.

19.724 Seminar in Econometrics (3) Extension of econometric theory and applications, including maximum likelihood methods and asymptotic theory. Assessment of econometric models and their use. Usually offered every third term, following 19.723. *Prerequisite:* 42.502 and 19.723.

19.774 Seminar in Economic Thought (3) Special topics in the history of economic thought with emphasis on problems of methodology and philosophy. Usually offered every spring. *Prerequisite:* 19.504.

19.776 Seminar in Economic History (3) Selected topics and research in economic history, American and European. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* 19.507 or 19.508.

19.781 Seminar in Political Economy (3) Advanced analysis of selected topics in political economy. For doctoral students. Usually offered every spring. *Prerequisite:* 19.511 and 19.711 or permission of the department.

19.784 Seminar in International Trade and Finance (3) Selected advanced topics in international economics. Research paper required. Offered irregularly. *Prerequisite:* 19.524 and 19.525, or permission of department.

19.788 Seminar in Economic Development (3) Research seminar involving a treatment in depth of selected topics. Research paper required. Usually offered every fall. *Prerequisite:* 19.560, and 19.505 or 19.521.

19.790 Seminar in Labor Economics (3) Public policy toward labor unions; the economics of human capital; measurement and analysis of income distribution; poverty measurement and analysis; unemployment and manpower policy; selected topics in labor policy. Usually offered alternate springs. *Prerequisite:* 19.500 and 19.501.

19.797 Independent Research: Master's Thesis Seminar (1-6)

19.799 Independent Research: Doctoral Dissertation Seminar (1-24)

Education

Undergraduate Courses

21.200 Schools and Society /S 4:2 (3) The major philosophical, historical, and social movements that have influenced American education and students. This foundation serves as a basis for studying contemporary education and the issues of racism, sexism, finance, governance, innovations, and the social context of American education. Lectures, discussion groups, and field observations. Usually offered every term. *Prerequisite for General Education credit:* 65.100 or 54.105.

21.203 Career Education: You and Your Future (2) The choice of a major and the career to pursue are important decisions a student can and should control. In this course, students learn research and interviewing skills and apply them to selection of a major and exploration of potential career fields. Usually offered every term.

21.205 Education for International Development /S 3:2 (3) The conserving role of education as a socializing agent and the liberating role of education as an engine of change. Special attention is given to the social and economic impact of education in national development, especially in the Third World. Usually offered every spring. *Prerequisite for General Education credit:* 03.110 or 19.110 or 33.110. *Note:* not open to students who have taken 21.578 Comparative and International Education.

21.212 Methodology of Sign Language /A (3) The principles of manual communication and some principles of American Sign Language (ASL) are introduced. Learning signs and gaining expressive and receptive skills are stressed. Offered every spring and fall.

21.240 Documentation and Analysis of Field Experience (3) A review of contemporary theories and research in adult development and learning that provides students with the context to identify, analyze, and synthesize prior experiential learning. Final product is a portfolio that documents such learning. A required course limited to AP&L students. Usually offered every term.

21.250 Mathematics for Elementary School Teachers (3) Basic mathematical concepts are considered, providing an understanding of the structure of elementary school mathematics. Tutorial experiences encouraged. Usually offered every term. *Prerequisite:* second-semester freshman standing.

21.319 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family lifestyles, death and dying, and the international concerns of war and peace. Meets with 21.619. Usually offered every spring.

21.320 Psychology of Education (3) Psychological problems in learning. Topics include flow; nature and control of learning; theories of motivation; development of skills and knowledge; pupil evaluation of tests and management; creative learning and critical thinking. Lecture, small group discussion, and one half-day of field experience in schools per week. Meets with 21.321. Usually offered every term.

21.321 Field Experience: Observation and Analysis (1) Extensive observation and analysis of curriculum and instruction in a variety of school settings. Students gain skill in using several formal and informal observation instruments with particular emphasis on classroom interaction. Meets with 21.320. Usually offered every term.

21.325 Global Education (3) The role of American education in an interdependent world, the multicultural character of American classrooms, and the international dimensions of the American school curriculum. The course explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Usually offered every spring.

21.330 Speech and Generic Teaching Methods (3) Introduction to research on equity and effectiveness in teaching. Emphasis on development of instructional objectives and speech and presentation skills. General teaching methods: questioning, classroom management, evaluation, and academic learning time. Students demonstrate teaching skills in clinical settings. Usually offered every fall. *Prerequisite:* 21.200, 21.320, and 21.321.

21.340 Methods and Materials in Secondary Education: English, Social Studies, Mathematics, and Foreign Languages (3) General methods, materials, and applications to special school subjects. Laboratory experiences in the university classroom and in area secondary schools. Students provide their own transportation. Usually offered every spring. *Prerequisite:* 21.200, 21.320, 21.321 or approved equivalent, overall grade point average of 2.70 (3.00 in the major), and admission to the teacher education program.

21.371 Theories of Reading (3) How to teach reading to children. Students learn how to evaluate children's unique strengths and weaknesses and take advantage of this information in planning reading programs for children. Offered irregularly. *Prerequisite:* 21.200, 21.320, and 21.321.

21.372 Methods and Practicum in Childhood Development (2) An overview of the preschool years. Material focuses on stages of development and on methods of teaching young children and developing curriculum. Practicum in the child development center, interviews, and oral presentations complement readings and class discussions. Usually offered every spring.

21.389 Sexism in School and Society: National and International Perspectives /S (3) Topics include: bias in textbooks, teacher-student interaction, school counseling, sex-segregated schools, school personnel behavior, vocational education, physical education and athletics, and

international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, and legal actions such as Title IX of the 1972 Education amendments. Course includes role play and case studies. Meets with 21.689. Offered irregularly.

21.390 Independent Reading Course in Education (1-8)

21.392 Cooperative Education Field Experience (3-9)
See description under Cooperative Education Field Experience.

21.402 Methods of Teaching Children with Learning Disabilities (3) An introduction to special education with emphasis on learning disabilities. Attention to perceptual and cognitive development of children and adolescents and their academic and behavioral problems. Emphasis on teaching through children's strengths and interests, remedial approaches for their weaknesses, and special techniques of management. Usually offered every spring.

21.490 Independent Study Project in Education (1-6)

21.491 Internship in Education (6-9) Students participate in the professional activities of selected educational organizations or agencies in the Washington, D.C. area. Students gain experience in nonteaching occupations that are integrally related to education and gain skills in educational research and curriculum or program development and dissemination. *Prerequisite:* permission of the director of the Internship program.

Graduate and Advanced Undergraduate Courses

21.501 Language Arts and Social Studies Curricula in Special Education (3) The relation between teachers and their curriculums and learners and their needs. First semester concentrates on language arts and social studies including teaching of reading as a crucial educational responsibility, reading in relation to principles of learning and child development, materials and techniques for specific learning outcomes, the role of language in the child's life, and interrelationships between various phases of language arts. Practicum experience includes teaching under videotape supervision. Offered irregularly.

21.502 Methods of Managing Pupils with Behavior Disorders (3) Psychoeducational methods of understanding and managing inappropriate classroom behavior. Techniques such as groups, problem solving, role playing, and videotape analysis of behavior. Usually offered every fall and summer.

21.503 Theories and Practices in Special Education (3) Theories and methods of reeducating emotionally disturbed children, such as psychodynamic, behavioral, psychoeducational, educational, and ecological models. Case conferences, guest lectures, group discussions, and videotape analysis. Usually offered every spring. *Prerequisite:* 21.502.

21.504 Methods of Psychoeducational Assessment (2-3) Understanding the meaning of a child's behavior. Issues and concepts in measuring behavior, interpreting data, psychoeducational programming, and follow-up evaluation. Practicum experiences include observation and participation in classroom activities, group and individual

testing, and psychoeducational case conferences. Offered irregularly.

21.508 Theories and Methods of Urban Education Curriculum (3) Procedures, dynamics, and content of inner-city education and the way this system affects exceptional children who have emotional disturbances. This curriculum is employed through theory and application of methods in practicum experience. Offered irregularly.

21.519 Computers in Education (3) An introduction to computer literacy, with emphasis on the role of the computer in the elementary school. Students learn methods and criteria for the evaluation of educational software, programming in BASIC and LOGO, as well as skills in teaching effectively with computers. Additional topics include the history of computers, educational applications of computers, and the impact of computers on education. Usually offered every fall.

21.520 Reading, Writing, and Literature across the Curriculum (3) Strategies and approaches appropriate for implementing reading and writing assignments for any content area are presented and practiced. Literature relative to each content area is explored and connected to learnings. Reading assignments, practical course competencies, and opportunities to integrate the three areas are included. Usually offered every spring.

21.521 Foundations of Education (3) An overview of the historical, philosophical, political, and social foundations of American education. Contemporary topics in American education are addressed, including curriculum reform, the reform reports, school governance, school law, and school finance. Usually offered every summer.

21.522 Principles of Effective Methods and Instruction (3) An in-depth examination of the methods and competencies necessary for teaching, including instructional planning, writing objectives, lesson presentation, questioning, interpersonal communication, classroom management, lecturing, and evaluation. Usually offered every spring.

21.525 Introduction to Statistics, Tests, and Measurement (3) Introduction to descriptive and inferential statistics and to tests and measurement. Topics include: measures of centrality, dispersion, and association; statistical distributions; tests of hypotheses; problems of measurement; achievement, aptitude, and behavior tests; and student evaluation. Offered every summer and fall.

21.541 Foundations of Special Education for Exceptional Children (3) Characteristics of exceptional children and of problems in providing educational programs to meet their needs. Usually offered every spring.

21.545 Overview of All Exceptionalities: The Arts in Special Education (3) An experiential course treating a variety of handicapping conditions and introducing a panoply of art forms. Students learn to program for success in each art form by building on the abilities, strengths, and interests of each disabled person, systematically programming academic material into arts activities, and teaching socialization and life skills. Usually offered every fall.

21.551 Counseling Skills in Training and Development (3) The development of basic counseling and interviewing

skills needed to assist in individual development through the life span, with an emphasis on adult social, personal, and career development. Usually offered every fall.

21.552 The Teaching of Mathematics in Elementary Education (2) Materials and methods for teaching mathematics. Emphasis on the analysis of current research and effective mathematics instruction. Laboratory experiences in the university classroom and in area elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education Program. Must be taken concurrently with 21.553, 21.554, 21.555, and 21.556.

21.553 The Teaching of Language Arts in Elementary Education (2) Strategies for teaching language arts in elementary school. Emphasis is on teaching reading, speaking, and writing skills to elementary school students with special attention to the most current research in language arts instruction. There is practical application in microteaching settings and in local elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.552, 21.554, 21.555, and 21.556.

21.554 The Teaching of Social Studies in Elementary Education (2) Lecture, discussion, and practical application of materials and skills for social studies education of children through grade six. Emphasis on the analysis of current research in effective social studies teaching. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.552, 21.553, 21.555, and 21.556.

21.555 The Teaching of Reading in Elementary Education (3) Through participation in the university classroom and subsequent application of knowledge in the field, students learn the major reading approaches and accompanying materials currently used in elementary schools. Emphasis on the analysis of current research in effective reading instruction. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.552, 21.553, 21.554, and 21.556.

21.556 The Teaching of Science in Elementary Education (3) Methods, materials, and curriculums used in elementary school science; basic laboratory skills, safety and legal aspects. Field trips and field experiences. Usually offered every fall.

21.558 Psychodynamics of Family Life (3) The normal developmental stages of families and the variety of maladaptive responses to family crises. Offered every fall.

21.561 Introduction to Student Development in Higher Education (3) Philosophical, psychological, and sociological bases for student personnel administration. Emphasis on admission, orientation, counseling, judiciary functions, student activities, financial aid, housing, health services, and career counseling and placement in student personnel services. Usually offered every fall.

21.566 Seminar: Cultural Factors in Higher Education (3) Study of college students and their culture. Emphasis on assessment and evaluation of phenomena in the collegiate setting to gain insight into cultural dynamics that bear on student development. Usually offered every spring.

21.583 Curriculum Construction and Program Design (3) A review of the history of curriculum development, an analysis of current curricular issues, development of a comprehensive curriculum design based on a goal-focused model. An emphasis on curriculum development skills for a variety of educational settings. Usually offered every fall.

21.587 Analysis of Instruction and Training (3) For administrators, supervisors, trainers, and teachers. Research on instructional effectiveness and analysis of teaching and training styles. Students are encouraged to broaden their repertoire of teaching and observation skills. Offered every summer.

21.590 Independent Reading Course in Education (1-6)

21.599 Student Teaching (6-15) Various sections provide student teaching opportunities in elementary, secondary, and special education classrooms as appropriate to student interest and professional preparation. Student teaching includes observation, teaching, seminars, and conferences with cooperating teachers and university supervisors. Students provide their own transportation. Applications for student teaching must be submitted by October 1 or March 1 for the following semester. Usually offered every fall and spring. *Prerequisites:* successful completion of the appropriate methods courses, recommendation of the methods instructor, admission to the School of Education and timely completion of written applications for student teaching placement. *Secondary-school foreign language* students may take methods concurrently with twelve weeks of student teaching. *Elementary and secondary schools: music* (for students desiring certification for kindergarten through twelfth grade, student teaching is split between elementary and secondary placements); admission to the teacher education program and student teaching, and successful completion of appropriate methods courses.

Graduate Courses

21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3) Critical issues and concepts in the measurement of behavior, data interpretation, and follow-up evaluation for learning-disabled and emotionally disturbed children and adolescents. Usually offered every spring. *Prerequisite:* 21.645 and 21.525 or permission of instructor.

21.606 Theories and Methods in Diagnostic and Remedial Mathematics (3) Readings, demonstrations, educational games, and laboratory exercises. The material is implemented in trainees' classroom. Usually offered every spring.

21.607 Research Seminar in Special Education (3) A review of basic research designs used in special education, with emphasis on developing an interdisciplinary research case study. Usually offered every fall. *Prerequisite:* permission of instructor.

21.608 Educating for Global Citizenship (6) This six-week institute for elementary and secondary teaching examines the dynamics of conflict and peacemaking through a case study approach to current conflicts. Review and development of curriculum materials, and instruction in conflict resolution skills provides the context for transferring the themes of the Institute to classroom situations. Meets with 33.608. Usually offered every summer. *Prerequisite:* permission of instructor.

21.615 Educational Issues and Approaches in Gifted Education (3) Historical development, definitions, incidence levels, identification procedures, characteristics (intellectual, creative, social, emotional, psychomotor), programs, interviews with gifted children and their parents, minority gifted, special problems, teachers, trends, and future perspectives. Usually offered every fall.

21.619 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family life styles, death and dying, and the international concerns of war and peace. Meets with 21.319. Usually offered every spring.

21.620 Theories of Educational Psychology (3) Psychological principles and research having special relevance to education, including a consideration of motivation, attitudes, mental abilities, and the psychology of school subjects. Usually offered every spring and summer.

21.625 Global Education (3) This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Usually offered every spring.

21.631 Introduction to Administration in Education, Training, and Development (3) Introduction to the development, administration, and improvement of institutions, organizations, agencies, and enterprises, including schools, through education, training, and development services. Usually offered every fall.

21.632 Problems in Organizational Management for Education, Training, and Development (3) A case-study approach to the study of internal problems. Problem-solving models employed in simulated and real situations in education and other training settings. Offered irregularly.

21.633 Business and Fiscal Administration for Education, Training, and Development (3) Principles and practices of financing public education programs at federal, state, and local levels. Taxes, bonds, budgets, purchasing systems, accounting systems, and other aspects of school business administration are covered. Offered irregularly. *Prerequisite:* 21.631.

21.635 Training Program Design (3) An Introduction to the design and delivery of adult training programs, empha-

sizing the development of skills in a variety of training components: needs assessment, goals and objectives, training methodologies and materials, and evaluation. This course is equally appropriate for novice trainers or those with previous experience. Usually offered every fall.

21.639 Administrative Effectiveness Workshop (3) A theory-based, skills-oriented workshop for administrators, dealing with concepts of administrative effectiveness, administrative style awareness, style flexibility, situational diagnosis skills, and team skills. Usually offered every spring.

21.644 Language Development and Remediation (3) How does one learn to use language to express thoughts and feelings? How does one teach a learning-disabled child to communicate effectively? This course discusses the developmental sequence of language learning, the nature of language disorders, diagnostic assessment of language disorders, and remedial techniques. Usually offered every fall.

21.645 Learning Disabilities I (3) Examines neurological and developmental aspects of learning disabilities. Usually offered every fall. *Prerequisite:* permission of instructor.

21.646 Learning Disabilities II (3) Develops diagnostic capabilities in order to select and design materials and programs for learning-disabled children and youth. Special problems of learning disabled adolescents and adults are studied in depth. Post-secondary education, career awareness, and career development approaches and programs are represented. Counseling techniques for parents and mainstream teachers are addressed. Usually offered every spring. *Prerequisite:* 21.531.

21.653 Techniques and Theories of Counseling in Education (3) Contemporary theories of counseling, personality, and psychotherapy. Discussion of techniques and issues in counseling; practice interviewing and counseling using specific techniques. Offered irregularly. *Prerequisite:* 21.551.

21.654 Career Counseling Theory and Practice (3) Administration and interpretation of vocational tests; methods of preparing and presenting occupational information; research and theories of vocational choice; theories and practices in placement. Emphasis is on the adult learner. Usually offered every spring. *Prerequisite:* permission of instructor.

21.658 Family Systems and Family Therapy (3) The family as a system. Emphasis is on interaction of family members, family crises, diagnosis, and family treatment theories and interventions. Conjoint and Multiple Impact Therapy approaches and other interdisciplinary and ecological systems of family therapy are also emphasized. Offered irregularly. *Prerequisite:* 21.551.

21.663 The Community College (3) Organizational patterns, diversity of function, student and faculty, and current problems of the two-year institution. Usually offered every summer.

21.666 Legal Aspects of Education (3) For advanced graduate students pursuing degrees in Administration or Counseling and Development. Study of student-institution

relationship, institutional judicial systems, student rights, records, and due-process issues.

21.671 Foundations of Reading: Diagnosis and Remediation (3) Broad considerations underlying the teaching of reading with emphasis on reading disability and problems of the retarded reader. Usually offered every fall and summer.

21.678 Comparative and International Education (3) This course explores the nature of education as a social institution, examining the way education both reflects and influences cultural, social, economic, and political life in a variety of nations and cultures. Special emphasis is placed on education as a means to address contemporary global problems. Offered irregularly.

21.679 Nonformal Education and Development (3) An examination of the role of nonformal education in the economic, social, and political development of developing nations. Specifically, the course deals with out-of-school programs in adult education, literacy, health, family planning, agriculture, nutrition, and community development. Case materials from several countries are used to study the issues and techniques involved in human resource development. Offered every spring.

21.682 School Supervision (3) For prospective and in-service supervisors of elementary and secondary schools. Clinical and human resources models of supervision. Field practicum. Offered irregularly.

21.689 Sexism in School and Society: National and International Perspectives (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.389. Usually offered every spring.

21.690 Independent Study Project in Education (1-6)

21.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

21.693 Program and Training Evaluation (3) The course seeks to develop the systematic skills needed to conduct evaluations of training and development programs in various educational and organizational settings. Usually offered every spring. *Prerequisite:* 21.525 or equivalent.

21.785 Seminar in Student Development in Higher Education (3) Issues and problems in contemporary programs of student affairs administration. Usually offered every fall. *Prerequisite:* permission of instructor.

21.789 Practicum in Student Development (3-6) For advanced students in student personnel services in higher education. Students are assigned to areas of a program of student personnel services for exploratory administrative case and research experience. May be repeated for credit but not in the same term; topic may be the same. Usually offered every summer. *Prerequisite:* permission of instructor.

21.790 Educational Research (3) Fundamentals, methods, and materials for educational research. Required of all graduate education students. Usually offered every spring. *Prerequisite:* 21.525 or equivalent and admission to a graduate degree program in education.

21.791 Research Seminar in Education (3) A comprehensive research paper is required. A grade of B or better is required to receive credit. Offered irregularly. *Prerequisite:* 21.790.

21.792 In-Service Training Project: Internship in Education (3-12) Internships in cooperating school systems and other agencies and organizations as an integral part of degree programs in the School of Education. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

21.797 Master's Thesis Seminar (1-6) At least three credit hours are required of all students working on master's theses. Usually offered every term.

21.799 Doctoral Dissertation Seminar (1-12) A total of twelve credit hours is required of all students working on doctoral dissertations. Usually offered every term. *Prerequisite:* 21.790 or equivalent and advancement to candidacy.

Literature

Undergraduate Courses

23.100 College Writing (3) Develops students' skills in reading with understanding, summarizing and synthesizing information accurately, and writing correct, reasoned prose. Usually offered every term. Completion with a grade of C or better fulfills one semester of the university English Course Requirement and the English Competency Requirement.

23.101 College Writing Seminar (3) Continues the work begun in 23.100, stressing the student's abilities to construct extended arguments, to synthesize diverse materials, and to pursue library research. Usually offered every term. Completion with a grade of C or better fulfills one semester of the university English Course Requirement. *Prerequisite:* 23.100 or permission of department.

23.102 College Writing (3) 23.102 and 23.103 are essentially the same as 23.100 and 23.101. They are designed, however, for students whose language skills need special attention, and they have an additional class session each week. Usually offered every term.

23.103 College Writing Seminar (3) See course description for 23.102. Usually offered every term. *Prerequisite:* 23.102 or equivalent.

23.105 The Literary Imagination /A 1:1 (3) The fundamental imaginative processes that underlie and connect the activities of literary creation and literary understanding. Besides reading works by both male and female writers chosen from a variety of times and places to represent each of the major genres, students also do critical and creative writing of their own. Usually offered every term. *Note:* not open to students who have taken 23.141 Understanding Literature.

23.110 College Reading (2-3) Develops the ability to cope efficiently with the rigors of academic life. Emphasizes practical techniques of reading in different disciplines, speed reading, time management, note taking, exam skills, and research. Usually offered every term. Consult advisor to determine whether to register for 2 or 3 credit hours.

23.115 Remarkable Literary Journeys /A 2:1 (3) A selective introduction to the tradition of Western literature from oral epic to twentieth-century texts, this course builds on a central literary metaphor: the idea of the journey or quest. Diverse literary masterpieces embody but also go beyond this concept, offering students a rich foundation in classical works of the Western literary imagination. Usually offered every term.

23.120 Interpreting Literature /A 1:1 (3) This course teaches students to analyze and interpret literary texts: poetry, drama, and prose fiction. It teaches the general process through which one comes to a more comprehensive understanding of literary works. Since interpreting entails the ability to communicate understanding, the course also teaches the writing of interpretive criticism. Usually offered every term. *Note:* not open to students who have taken 23.140 Critical Reading.

23.130 Honors English I (3) Limited to first-year students, by invitation. Usually offered every fall. Completion with a grade of C or better fulfills one semester of the university English Course Requirement and the English Competency Requirement.

23.131 Honors English II (3) Limited to first-year students, by invitation. Usually offered every spring. Completion with a grade of C or better fulfills one semester of the university English Course Requirement.

23.135 Critical Approach to the Cinema /A 1:1 (3) Analysis of film content and style through screenings and substantial readings in aesthetic theory and film history. Also considers social issues, cultural artifacts, and forms of artistic expression. Usually offered every term. *Note:* not open to students who have taken 23.275 Critical Approach to Cinema.

23.150 Third World Literature /A 3:1 (3) An introduction to literature written by writers from the Third World: Africa, Asia, and Latin America. The emphasis is on contemporary fiction and the ways that this writing depicts cultural and political change brought about by the impact of outside forces. Usually offered every term.

23.180 Writing Workshop (3) An intensive writing seminar reviewing grammar and the principles of clear, correct expository prose. Completion with a grade of C or better fulfills university English Competency Requirement. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103 or permission of instructor.

23.200 Introduction to Creative Writing (3) Creative writing for beginning students who want to write poetry, fiction, drama, reportage, and autobiography, with specific assignments in each category. With departmental permission, course may be repeated for credit, but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.201 Advanced Writing Workshop (3) Seminar designed to help students polish their writing skills. Stresses persuasive, expository, and informational writing. For students admitted or readmitted from fall 1979 through summer 1989, completion with a grade of C or better fulfills the university English Competency Requirement. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.202 Writing for Prospective Lawyers (3) An advanced course in writing designed to hone the skills necessary to write legal briefs, memoranda, and agreements. Particular attention is paid to logic and argumentation. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.203 Business Writing (3) The course stresses clarity, conciseness, and directness in the preparation of correspondence, memoranda, reports, proposals, and other kinds of writing common in the business world. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103.

23.205 Issues, Ideas, and Words (3) Through class discussions and frequent written assignments, the course helps students understand and articulate their learning in relation to thought in the humanities, natural sciences, and social sciences. Usually offered every term. *Prerequisite:* enrollment limited to students in the APEL program. *Note:* Completion with a grade of C or better fulfills the first semester of the university English Course Requirement and the English Competency Requirement.

23.210 Survey of American Literature I (3) A historical study of American writers and their contributions to the diversity of American literary forms and intellectual life, from the Puritan settlement to Dickinson and Whitman. Writers are appraised aesthetically, both individually and in cultural context. Usually offered every fall.

23.211 Survey of American Literature II (3) A historical study of American writers and their contributions to the diversity of American literary forms and intellectual life, from post-Civil War to the present. Writers are appraised aesthetically, both individually and in cultural context. Usually offered every spring.

23.215 Writers in Print/in Person /A 1:2 (3) Offers students the opportunity to study works by contemporary authors and then to continue their exploration of these works in meetings with the writers. Features locally and nationally prominent writers, including American University writing faculty. Usually offered every term. *Note:* not open to students who have taken 23.241 Living Writers. *Prerequisite for General Education credit:* 23.120 or 67.115.

23.220 Survey of British Literature I (3) A historical exploration of a range of writers in the British tradition, from Chaucer through the eighteenth century. Writers are examined as individual artists and as representatives of their age. Usually offered every fall.

23.221 Survey of British Literature II (3) A historical exploration of a range of writers in the British tradition, from the Romantic period through the twentieth century. Writers are examined as individual artists and as representatives of their age. Usually offered every spring.

23.225 The African Writer /A 1:2 (3) Contemporary African literature, with special emphasis on the role of the writer. The course includes many of the major African literary works of the last sixty years—fiction, poetry, and drama—and at the same time focuses on the African writer's unique role as creator of functional art. Usually offered every fall. *Prerequisite for General Education credit:* 23.120 or 23.105.

23.230 Major European Writers I: An Introductory Survey (3) A study of selected continental writers from the Greeks to the seventeenth century. The method is chronological, with attention given to the emergence and development of major literary forms. Usually offered every fall.

23.231 Major European Writers II (3) An introductory survey of the major European writers and literary periods from the eighteenth to the twentieth century. Usually offered every spring.

23.235 African-American Literature /A 2:2 (3) A survey of African-American literature beginning with the poet Phillis Wheatley and the slave narratives of the 1700s and concluding with Malcolm X and Toni Morrison. The emphasis is on the continuity of black writing within its historical and cultural contexts. Usually offered every term. *Prerequisite for General Education credit:* 23.115 or 29.115. *Note:* not open to students who have taken 23.324 Black American Literature.

23.240 Narrative and Knowledge /A 1:2 (3) Since Aristotle's distinction between tragedy and history, the novel has been defined by its relationship to true events. This course confronts the aesthetic workings of various narratives, their roots in romance and history, as well as how they refer to "reality," historical fact, and transcendent truth. Usually offered every term. *Prerequisite for General Education credit:* 23.105 or 23.135.

23.245 The Experience of Poetry /A 1:2 (3) Without dwelling on "professional" terminology and technique, the course aims to make poetry more accessible and enjoyable through reading, writing, and discussion. Students are asked to write some poetry along with nearly traditional papers, but the poetry assignments are designed to reassure those who doubt their creativity. Usually offered every term. *Prerequisite for General Education credit:* 23.120 or 23.105. *Note:* not open to students who have taken 23.304 Elements of Poetry.

23.250 Image of Italy in English and American Writers (3) From Edward Gibbon to Ezra Pound, English and American writers have been stimulated by their experience in Italy in a way fundamental to the development of their work. This course explores the changing and complex image of Italy in English and American literature. Offered only in Rome. Usually offered every term.

23.251 Roman Literature in Translation (3) A survey of ancient Roman literature focusing on the theme of urbanity and city life from Plautus through Juvenal, middle republic through middle empire. Readings from comedy, lyric poetry, epic, history, essay, novella, letters, law, and satire. Offered only in Rome. Usually offered every term.

23.255 Political Revolutions and Literary Continuity, 1660–1798 /A 2:2 (3) An examination of four competing ideologies from 1660 to 1798. Introduction to the ideas and

institutions in Western culture that are associated with the emergence of modern thought. Students read texts across the curriculum (art, literature, history, philosophy) to better grasp this essential period. Usually offered every fall. *Prerequisite for General Education credit:* 07.100 or 29.115 or 23.115.

23.265 Literature and Society in Victorian England /A 2:2 (3) The connections between literary works and their social context. The course is divided into significant cultural topics, such as the effect of scientific advancement on society at large, how Victorians perceived themselves at home and at work, and how issues of political reform affected literary works. Readings include historical studies, as well as novels and poems. Usually offered every spring. *Prerequisite for General Education credit:* 29.110 or 23.115. *Note:* not open to students who have taken 01.200 Honors Seminar in the Arts and Humanities: Culture and Society in the Nineteenth Century.

23.270 Transformations of Shakespeare /A 1:2 (3) Shakespeare's use of dramatic form, such as tragicomedy, masque, and spectacle. In addition, students learn about the interrelationship between form and meaning by seeing how the cultural myths encoded in these genres become transformed in different ages, media, and cultures. Usually offered every term. *Prerequisite for General Education credit:* 07.105 or 23.120 or 67.115.

23.301 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre. Meets with 23.601. Usually offered alternate falls.

23.303 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). Meets with 23.603. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.306 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. Meets with 23.606. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.307 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Meets with 23.607. Usually offered alternate years.

23.308 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Meets with 23.608. Offered irregularly.

23.310 Major Authors (3) Intensive study of the works of one or more important authors. Attention is paid to the

evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Meets with 23.610. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.315 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Meets with 23.615. Usually offered alternate falls.

23.316 Nineteenth Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville. Meets with 23.616. Usually offered every year.

23.317 Emerson, Thoreau, and Twain: Nineteenth Century American Prose (3) Readings in nonfictional non-poetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Meets with 23.617. Usually offered alternate springs.

23.318 American Literary Realism (3) Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. Meets with 23.618. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

23.320 Modern American Poetry, 1912-1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Meets with 23.620. Usually offered alternate springs.

23.321 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Meets with 23.621. Usually offered alternate springs.

23.322 Contemporary American Literature (3) Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; and theories, figures, and modes of recent poetry. Meets with 23.622. May be repeated for credit within the same term; topic must be different. Usually offered every year. *Note:* Students who have received credit for 23.322 Contemporary American Poetry may not take this course if the topic is poetry. Students who received credit for 23.323 Contemporary American Fiction may not take this course if the topic is fiction.

23.325 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on

their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works. Meets with 23.625. Usually offered every year.

23.330 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myth, as well as major sagas and poems of Ireland and Wales. Meets with 23.630. Usually offered alternate years.

23.331 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature. Meets with 23.631. Usually offered every spring.

23.332 Shakespeare Studies (3) Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays, and Shakespeare on film. Meets with 23.632. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Note:* Students who have received credit for 23.332 Shakespeare I may not take this course if the topic is Plays before 1600. Students who have received credit for 23.332 Shakespeare II may not take this course if the topic is Plays after 1600.

23.334 Literature of the Renaissance (3) Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), and Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Meets with 23.634. May be repeated for credit within the same term; topic must be different. Usually offered every year. *Note:* Students who have received credit for 23.335 Renaissance Poetry may not take this course if the topic is poetry. Students who have received credit for 23.334 Renaissance Drama may not take this course if the topic is drama.

23.336 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. Most of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Meets with 23.636. Usually offered alternate falls.

23.337 Restoration and Eighteenth Century Literature (3) Major writers and dominant forms in the Restoration and Neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Meets with 23.637. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.339 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth century England. Meets with 23.639. Usually offered alternate falls.

23.340 Dickens to Conrad: The Nineteenth Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character. Meets with 23.640. Usually offered alternate springs.

23.341 The Romantic Imagination (3) Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term "Romantic" to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.343 Modern British Literature (3) Topics in the twentieth-century literature of Great Britain including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Meets with 23.643. May be repeated for credit within the same term; topic must be different. Usually offered alternate years. *Note:* Students who have received credit for 23.343 Modern British Fiction may not take this course if the topic is fiction. Students who have received credit for 23.344 Modern British Poetry and Drama may not take this course if the topic is poetry and drama.

23.345 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. Meets with 23.645. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years.

23.360 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic, drama, lyric, and romance in translation. Meets with 23.660. Usually offered alternate falls.

23.361 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on literary techniques and innovations, such as stream of consciousness, point of view, and chronology. Meets with 23.661. Usually offered alternate springs.

23.363 French Literature (3) An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert,

Baudelaire, Proust, Malraux, and Robbe-Grillet. Meets with 23.663. Offered irregularly.

23.365 The Political Novel (3) An investigation of how writers engage political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Meets with 23.665. Usually offered alternate years.

23.367 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature in translation from the Middle Ages to the present. Meets with 23.667. Usually offered alternate springs.

23.368 Dostoyevsky and Tolstoy (3) Intensive study of selected works of Dostoyevsky and Tolstoy. Authors are treated individually with some comparison. Usually offered alternate falls.

23.370 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues covered are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others. Meets with 23.670. Usually offered every fall.

23.375 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Laboratory fee. Meets with 23.675. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

23.376 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. Laboratory fee. Meets with 23.676. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.377 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Laboratory fee. Meets with 23.677. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.378 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee. Meets with 23.678. Usually offered every year.

23.380 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and

techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehnen, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee. Meets with 23.680. Usually offered alternate springs.

23.390 Independent Reading Course in Literature (1-6)

23.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

23.400 Creative Writing: Fiction (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Meets with 23.700. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* 23.200 or equivalent, or permission of instructor.

23.401 Creative Writing: Poetry (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. Meets with 23.701. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* 23.200 or equivalent, or permission of instructor.

23.402 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. Meets with 23.702. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* permission of instructor.

23.403 Technical and Report Writing (3) An overview of the kinds of writing expected of scientists, social scientists, engineers, and other interpreters of technical information. Course work centers on intensive practice applying the principles of clear expression and effective rhetoric to reports, memoranda, manuals, and articles for technical journals. Meets with 23.703. Offered irregularly. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.405 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Meets with 23.705. Usually offered every spring.

23.490 Independent Study Project in Literature (1-6)

23.491 Practical Internship in Literature (3) Practical work in writing and research for various agencies and publications. Experience in apprentice teaching with private schools and diverse groups. Project must be approved in advance by department chair or undergraduate adviser. Usually offered every term.

23.498 Honors, Senior Year (3)

23.499 Honors, Senior Year (3)

Graduate and Advanced Undergraduate Course

23.525 Seminar in Literary History (3) Studies the identity of specific historical traditions; the ways in which such concepts as periodization affect our reading of literature; and how and why we determine the differences between periods, the identity of periods, and the major voices of a given period. May be repeated for credit in the same term: topic must be different. Usually offered every year.

23.526 Seminar in Literary Theory (3) Provides a methodological basis for theoretical approaches to literary studies; focuses on critical issues in the study of literature; introduces graduate students and advanced undergraduates to basic questions surrounding the activity and discourse of literary research. May be repeated for credit in the same term: topic must be different. Usually offered every year.

23.590 Independent Reading Course in Literature (1-6)

Graduate Courses

Note: 600-level courses in literature generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

23.601 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre. Meets with 23.301. Usually offered alternate falls.

23.603 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). Meets with 23.303. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.606 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. Meets with 23.306. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.607 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Meets with 23.307. Usually offered alternate years.

23.608 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Meets with 23.308. Offered irregularly.

23.610 Major Authors (3) Intensive study of the works of one or more important authors. Attention is paid to the

evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Meets with 23.310. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.615 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Meets with 23.315. Usually offered alternate falls.

23.616 Nineteenth Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville. Meets with 23.316. Usually offered every year.

23.617 Emerson, Thoreau, and Twain: Nineteenth Century American Prose (3) Readings in nonfiction, poetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Meets with 23.317. Usually offered alternate springs.

23.618 American Literary Realism (3) Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. Meets with 23.318. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

23.620 Modern American Poetry, 1912-1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Meets with 23.320. Usually offered alternate springs.

23.621 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Meets with 23.321. Usually offered alternate springs.

23.622 Contemporary American Literature (3) Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; theories, figures, and modes of recent poetry. Meets with 23.322. May be repeated for credit within the same term; topic must be different. Usually offered every year. *Note:* Students who have received credit for 23.623 Contemporary American Fiction may not take this course if the topic is fiction. Students who have received credit for 23.622 Contemporary American Poetry may not take this course if the topic is poetry.

23.625 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on

their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works. Meets with 23.325. Usually offered every year.

23.630 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society: religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales. Meets with 23.330. Usually offered alternate years.

23.631 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature. Meets with 23.331. Usually offered every spring.

23.632 Shakespeare Studies (3) Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays and Shakespeare on film. Meets with 23.332. May be repeated for credit within the same term; topics must be different. Usually offered every term. *Note:* Students who have received credit for 23.632 Shakespeare I may not take this course if the topic is Plays before 1600. Students who have received credit for 23.633 Shakespeare II may not take this course if the topic is Plays after 1600.

23.634 Literature of the Renaissance (3) Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Meets with 23.334. May be repeated for credit within the same term; topic must be different. Usually offered every year. *Note:* Students who have received credit for 23.634 Renaissance Poetry may not take this course if the topic is poetry. Students who have received credit for 23.634 Renaissance Drama may not take this course if the topic is drama.

23.636 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. Most of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Meets with 23.336. Usually offered alternate falls.

23.637 Restoration and Eighteenth Century Literature (3) Major writers and dominant forms in the Restoration and neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Meets with 23.337. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.639 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth century England. Meets with 23.339. Usually offered alternate falls.

23.640 Dickens to Conrad: The Nineteenth Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character. Meets with 23.340. Usually offered alternate springs.

23.641 The Romantic Imagination (3) Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term "Romantic" to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. Meets with 23.341. May be repeated for credit within the same term; topic must be different. Usually offered every year.

23.643 Modern British Literature (3) Topics in the literature of Great Britain in the twentieth century including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Meets with 23.343. May be repeated for credit within the same term; topic must be different. Usually offered alternate years. *Note:* Students who have received credit for 23.643 Modern British Fiction may not take this course if the topic is fiction. Students who have received credit for 23.644 Modern British Poetry and Drama may not take this course if the topic is poetry and drama.

23.645 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. Meets with 23.345. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years.

23.660 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic, drama, lyric, and romance in translation. Meets with 23.360. Usually offered alternate falls.

23.661 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology. Meets with 23.361. Usually offered alternate springs.

23.663 French Literature (3) An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert,

Baudelaire, Proust, Malraux, and Robbe-Grillet. Meets with 23.363. Offered irregularly.

23.665 The Political Novel (3) An investigation of how writers engage political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Meets with 23.365. Usually offered alternate years.

23.667 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature in translation from the Middle Ages to the present. Meets with 23.367. Usually offered alternate springs.

23.668 Dostoyevsky and Tolstoy (3) Intensive study of selected works of Dostoyevsky and Tolstoy. Authors are treated individually with some comparison. Meets with 23.368. Usually offered alternate falls.

23.670 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others. Meets with 23.370. Usually offered every fall.

23.675 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Laboratory fee. Meets with 23.375. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

23.676 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. Laboratory fee. Meets with 23.376. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.677 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Laboratory fee. Meets with 23.377. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.678 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee. Meets with 23.378. Usually offered every year.

23.680 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and

techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehnen, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee. Meets with 23.380. Usually offered alternate springs.

23.690 Independent Study Project in Literature (1-6)

23.691 Graduate Internship (1-6) Practical experience in positions making use of the students' writing and organizational skills. Internships are arranged and supervised by a member of the department; consult department office. Required of M.F.A. candidates; open to other graduate students in the department. May be repeated for credit, but not in the same term. Usually offered every term. *Prerequisite:* graduate standing in the department.

23.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

23.700 Advanced Fiction Workshop (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Graduate students are expected to submit 12,500 words or more. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term.

23.701 Advanced Poetry Workshop (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit once, but not in the same term; topic may be the same. Usually offered every term.

23.702 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. Meets with 23.402. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term.

23.703 Technical and Report Writing (3) An overview of the kinds of writing expected of scientists, social scientists, engineers, and other interpreters of technical information. Course work centers on intensive practice applying the principles of clear expression and effective rhetoric to reports, memoranda, manuals, and articles for technical journals. Meets with 23.403. Offered irregularly. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.705 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Meets with 23.405. Usually offered every spring.

23.710 The Art of Literary Journalism (3) A workshop in which the craft of reviewing books, plays, movies, TV, art, and music is practiced. Speakers who are professionals in each craft are invited to class. Clear expository writing is the aim, tied to established criteria for sound

critical approaches in journalism. Meets with 23.410. Usually offered every fall.

23.725 Studies in Genre (3) Graduate seminar. A study of various kinds of literary expression. Topic changes yearly. Previous topics have been the comic vision, short American fiction, the introspective novel, formal theory of the novel, and tragedy. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.726 Studies in Major Writers (3) Graduate seminar. A study of the works of one or two selected writers. Topic changes yearly. Previous topics have been Shakespeare, Keats, Dickens, Whitman, Eliot, Yeats, and Melville. May be repeated for credit in the same term; topic must be different. Usually offered every year.

23.750 The Folger Seminar in Renaissance and Eighteenth Century Studies (3) Each semester three graduate seminars are offered. Graduate students at The American University are eligible to participate and should consult the Department of Literature. May be taken more than one semester.

23.797 Master's Thesis Seminar (1-6)

History

Undergraduate Courses

29.100 Historians and the Living Past /S 2:1 (3) Explores the theory and practice of the study of the past. Focuses on the ways in which our thinking is affected by our beliefs about the past; we reconstruct, explain, and evaluate past events; we organize knowledge about the past; and we analyze and evaluate the "lessons of the past." Usually offered every fall.

29.102 Classical Archaeology: History and Practice (3) A survey of the development of old-world archaeology from its romantic past to a scientific discipline through an examination of the most important discoveries and modern techniques of excavation; the meaning, method, and fields of archaeological work are examined as a measure of human interest in the past. Offered only in Rome. Usually offered every spring.

29.110 Renaissance and Revolutions: Europe, 1400-1815 /A 2:1 (3) The political, economic, and cultural emergence of Europe into world leadership during the period 1400-1815, stressing the problems of building or rebuilding political and social order, including the attempts to spread European civilization to other parts of the world. Usually offered every term. *Note:* not open to students who have taken 29.106 History of Modern Europe I.

29.111 Nationalism and Industrialization: Europe Since 1815 /A, S (3) Survey of the years from 1815 to the present. The world-wide consequences of nationalism combined with industrialization; the conflict between middle-class domination and awakening working-class consciousness; technology run wild; retreat from reason; and two world wars as the bases for understanding today's shrunken Europe and the warring in ex-colonial lands. Offered irregularly.

29.115 Work and Community /S 2:1 (3) In key historical contexts such as the industrial revolution, the development of New World plantations, and the transformation of farming, this course explores the changing relations between work and community. When have people found the opportunity to exert autonomy and creativity at work? How have evolving work relations influenced household composition, family roles, and cultural traditions? Usually offered every term.

29.120 Imperialism and Revolution /S 3:1 (3) The impact of imperialism and revolution since the nineteenth century on Asia, Africa, and Latin America. Analyzes theories of imperialism and Western stimulation of nationalism, revolution, racial confrontation, and cultural and demographic transformation. Concentrates particularly on China, Vietnam, and Cuba. Identifies patterns of poverty, instability, and conflict in the "developing" world. Usually offered every term. *Note:* not open to students who have taken 29.105 Twentieth Century World II.

29.200 Italian Civilization /A 2:2 (3) The course introduces students to some of the major aspects of Italian culture and civilization. It includes a survey of the history of the city and a discussion of the major developments in its art and architecture. Other topics of discussion include Italian opera and Italian geography. Course supplemented by study tours to cultural sites and monuments. Offered only in Rome. Usually offered every term. *Prerequisites for General Education credit:* 07.100 or 23.115 or 60.105 or 61.105.

29.201 The Italian Renaissance (3) A survey of Renaissance culture and history. Relations between Italian city-states, the rebirth of classical humanism, the role of the Church and the papacy, the growth of economic institutions, urban development, and political philosophy. Offered only in Rome. Offered irregularly.

29.202 The Ancient World: Greece (3) From Minoan Crete through Alexander the Great. Literary and artistic masterpieces in their historical settings. Emphasis on ancient sources. Usually offered every fall.

29.203 The Ancient World: Rome (3) From the Etruscans through Constantine. The interplay of constitution and empire, and the changing views of ethical conduct. Emphasis on ancient sources. Usually offered every spring.

29.204 Medieval Europe (3) Exploration of the medieval world-view and consideration of the organization of economic and political institutions, the relationship of secular and ecclesiastical authority, and the creation of new social and religious ideals during the millennium that bridges antiquity and modernity. Usually offered alternate springs.

29.205 America's Quest for the Good Society, 1607-1865 /A 2:2 (3) The sense of a better America as a beacon for world reform was a powerful impulse during the nation's colonial and formative years. Through investigation of selected cases, the course pursues the theme of America as a model society in quest of its own and other nations' redemption. Usually offered every term. *Prerequisite for General Education credit:* 29.110 or 53.105. *Note:*

not open to students who have taken 29.207 History of the United States I.

29.206 America's Quest for the Good Society since 1865 (3) American history from the end of the Civil War to the present. Modernization of America and resulting problems. Growth of U.S. power in international affairs. Roots and development of social and political change in America. Usually offered every term. *Note:* not open to students who have taken 29.208 History of the United States II.

29.210 Ethnicity in America /S 4:2 (3) This interdisciplinary course explores how ethnicity has shaped American institutions and behavior patterns from 1607 to the present. Largely a nation of immigrants, this country reflects the racial, religious, and national characteristics of those who migrated here, whether voluntarily or as slaves. Topics include ethnicity's influence on family, politics, civil rights, and foreign policy. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 65.100. *Note:* not open to students who have taken 29.210 Ethnic Experience in America.

29.214 American Cultural History (3) The major trends in American cultural history from the seventeenth century to the present, touching on representative figures in literature, art, music, and material culture as well as some major interpretations of American cultural history, such as those of Alexis de Tocqueville, Thorstein Veblen, and David Potter. Slide presentations, films, and field trips around Washington are included. Offered irregularly.

29.215 Social Forces that Shaped America /S 2:2 (3) The history of race, class, and gender in the United States from the war for independence to the present. The focus is on how these forces existed and continue to exist as intersecting material realities and contributors to the social attitudes held by residents of the United States. Usually offered every term. *Prerequisite for General Education credit:* 76.150 or 29.115.

29.220 Women in Modern America /S 4:2 (3) Change and continuity in the experience of American women from the mid-nineteenth century to the present. Social and political movements of special concern to women, including suffrage, birth control, woman's liberation, and contemporary antifeminism. A multidisciplinary perspective; both primary and secondary readings. Usually offered every spring. *Prerequisite for General Education credit:* 53.110 or 73.100. *Note:* not open to students who have taken 29.209 Women in Twentieth Century America.

29.221 History of England I (3) Political, social, and cultural development in England to 1689. Parliament, common law, civil war, plague, rebellion, concepts of kingship, and the conflict of church and state. Usually offered every fall.

29.222 History of England II (3) Great Britain since 1689. The rise and fall of the British Empire, cabinet government and limited monarchy, working-class politics and the welfare state, and industrialization and mass culture. Usually offered every spring.

29.225 Russia: Past and Present /A 3:2 (3) Russia has been termed a "riddle wrapped in a mystery inside an enigma." An examination of the major influences that have shaped Russia helps solve this mystery. Influences include

geography, autocracy, social and multi-ethnic composition, economics, relations with the West, and the ideologies of Orthodoxy, nationalism, and Marxism. Usually offered alternate years. *Prerequisite for General Education credit:* 33.120 or 29.120.

29.230 Early Russian History, 988-1700 (3) The first state, Kiev Rus, the impact of the Tatar Yoke, and the emergence of Muscovite Russia. Topics include the growth of Tsarist autocracy, the enslavement of the peasantry, the role of the Russian Orthodox church, and Russia's relations with the West. Usually offered alternate years.

29.231 Imperial Russia, 1700-1917 (3) Survey of Imperial Russian history with emphasis on the Romanov Tsars, peasantry, growth of industry, cultural developments, emergence of the revolutionary movements, expansion of the state, and foreign policy. Usually offered alternate years.

29.232 Soviet Union, 1917 to Present (3) The Tsarist heritage, Russian Marxism, the revolutions of 1917, the civil war, the New Economic Policy, rise of Stalin, the industrialization and collectivization of the 1930s, the Second Patriotic War, death of Stalin, the Khrushchev era, the Brezhnev regime, and Soviet culture. Usually offered every term.

29.235 The West in Crisis, 1900-1945 /S 2:2 (3) Earlier this century the West experienced world wars, the Great Depression, America's New Deal, and communist and Nazi revolutions and dictatorships. This course shows how crises and wars emerged from a conflicted Western heritage, and how communism, fascism, and the New Deal were responses to problems of modernity and progress emanating from different national histories. Usually offered every fall. *Prerequisite for General Education credit:* 29.100 or 29.110. *Note:* not open to students who have taken 29.104 Twentieth Century World.

29.238 France since Napoleon (3) Amid recurring revolutions and military disasters, France has struggled to find a stable form of government. This course investigates political experimentation, social conservatism, and cultural innovation in France since 1815. Topics include the legacy of the French Revolution, the expansion of Paris, colonial empire, Nazi occupation, and De Gaulle's leadership. Usually offered alternate years.

29.239 Modern Germany since 1848 (3) The revolutions of 1848 failed to unify Germany. Bismarck and the Prussian army succeeded. The new Germany produced Prussian militarism, socialism, youth movements, and the unsuccessful Weimar Republic. Hitler's Germany; World War II; Germany divided. Usually offered alternate years.

29.241 Colonial Latin America (3) Conquest and change in Indian civilization; imperial politics; race and class; Indian labor and the Black legend; imperial economic relations; imperial reform and revolution. Usually offered every fall.

29.242 Latin America since Independence (3) Problems in creating nations; militarism, dictatorship, and democracy; sources of underdevelopment; reform and revolution in the twentieth century. Usually offered every spring.

29.250 Civilization and Modernization: Asia /S 3:2 (3) Compares the great civilizations of China, India, and Japan; their interaction with the West; and their transformation from the nineteenth century. It thoroughly analyzes modernization and why Asian societies changed so differently; why revolutions wracked China and communism triumphed; how Japan emerged as a premier industrial state; and how India balances tradition, modernity, and democracy. Usually offered every spring. *Prerequisite for General Education credit:* 23.150 or 61.185. *Note:* not open to students who have taken 29.250 Modern Asia.

29.260 To Arms: People and Nations at War /S 3:2 (3) War as an enduring historical phenomenon. The causes of war in the past and how wars have been justified by nations and experienced by persons and peoples. Changing attitudes toward war, alternatives to it, and its possible future. Usually offered every term. *Prerequisite for General Education credit:* 29.120 or 33.120. *Note:* not open to students who have taken 29.260 Arms and the Man.

29.261 The Work of Peace in American History (3) How is peace between nations attained? Through case studies in United States history, broad historical forces, the quiet work of diplomacy, and the pressures of popular activism are explored as causes of peace. Attention is given to peaces, gained and lost, and to crises resolved short of war. Offered irregularly.

29.270 How to Think: Critical Analysis in the Social Sciences (3) The basic conceptual tools necessary for mastering a discipline or thinking for oneself. How to analyze a book or article. How to frame questions. How to prove something. Offered irregularly.

29.280 Cities: Cradles of Civilization (3) Urban development from Ur to the present. Emphasis on physical planning, the city as a creative environment, economic development, and the city's role in history. Offered irregularly.

29.281 The Rise of the American City (3) The American city's physical and political development from the seventeenth century frontier to the present. Its role in the formation of our society, culture, and economy, with special emphasis on American attitudes towards the city as reflected in housing policy, suburbanization, and in literature, film, and city-planning policy. Offered irregularly.

29.300 Ancient Studies (3) Topical courses in ancient history: Greece in the age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves; Espionage in the Ancient World. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.314 Eastern Europe since 1815 (3) The effects of nationalism, the fate of the peasantry, ethnic hostilities, World War I, the emergence of nation-states, and the Soviet domination of Eastern Europe. Meets with 29.614. Usually offered alternate years.

29.317 Weimar Germany (3) This is the Germany described in the movie *Cabaret*. Cultural and political themes

are stressed. Thomas Mann, Bertolt Brecht, Marlene Dietrich, Rosa Luxemburg, General Hindenburg, and Adolf Hitler are among the major figures. Expressionism, communism, and fascism confront the republican establishment. Offered irregularly.

29.318 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Meets with 29.618. Usually offered every spring.

29.320 War and Diplomacy: Napoleon to World War I (3) The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismark's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the making of World War I. Offered irregularly.

29.321 War and Peace, 1914-1945 (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world." Offered irregularly.

29.326 European Society in the Nineteenth and Twentieth Centuries (3) Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "New Europe." Offered irregularly.

29.327 Twentieth Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience. Meets with 29.627. Usually offered alternate years.

29.329 European Thought and Ideology (3) Rotating topical and chronological studies. Examples are European Communism and European Liberalism. Offered irregularly.

29.331 Modern Revolutions (3) The theory, patterns, and practice of twentieth century revolutions, and the revolutionary tradition stemming from the Enlightenment, the French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effect of revolutions and the revolutionary potential of modern industrial societies. Usually offered alternate years.

29.332 Contemporary Historical Studies (3) Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory;

Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different. Usually offered every term.

29.333 Tudor-Stuart England (3) England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution. Meets with 29.633. Offered irregularly.

29.334 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire. Meets with 29.634. Offered irregularly.

29.335 Twentieth Century England (3) Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture. Meets with 29.635. Offered irregularly.

29.336 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity. Meets with 29.636. Offered irregularly.

29.337 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern Britain, and Popular Rebels in Britain. Meets with 29.637. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.340 Latin American Studies (3) Rotating topics, including Diplomatic History of Latin America, Twentieth Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. Meets with 29.640. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.345 Russian Studies (3) Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472-1900; Russia in War and Revolution, 1855-1917; Twentieth Century Russian Diplomacy; Lord and Peasant; and Nineteenth Century Russian Literature and Society. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.347 Asian Studies (3) Topical courses in Asian history, including: China: from the Manchus to Mao; History of Japan; and India and the West. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.350 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society. Usually offered alternate years.

29.351 Era of the Revolution and Constitution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution. Meets with 29.651. Usually offered alternate years.

29.352 The Era of the New Republic, 1789-1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832-33 and 1848-50. Meets with 29.652. Usually offered alternate years.

29.353 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Usually offered alternate years.

29.354 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Usually offered alternate years.

29.355 Emergence of Modern America, 1877-1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Also studied: populism and progressivism. Usually offered alternate years.

29.356 Twentieth Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics. Offered irregularly.

29.357 America between the Wars, 1919-1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies. Offered irregularly.

29.361 World War II: The Global Experience (3) World War II examined from a global perspective. Attention is given to leaders; Allied and Axis war strategies, battles, and tactics; the occupation policies of Nazi Germany and Japan; economic warfare; innovations in weaponry; the

impact of the war on imperialism, nationalism, and communism; and the allied diplomacy that shaped the post-war world. Offered irregularly.

29.362 World War II: The American Experience (3) How the United States got into World War II; its diplomatic strategy and decisions. United States military efforts and leadership. The experience of G.I. Joe. Society and politics at home. The end of the war and the approach of the Cold War. Films, television, tapes, and guest speakers. Usually offered alternate years.

29.363 Other Wars: Cold, Korean, and Vietnam (3) Origins and development of the Cold War. Revolution of American diplomacy in the Truman administration (Truman Doctrine, Marshall Plan, and NATO). The Korean War. The Cuban missile crisis. The Vietnam war. Diplomacy, military history, and strategy; dissent; and the Cold War's impact on society at large. Visual media and guest speakers. Usually offered alternate years.

29.364 Twentieth Century United States Response to Revolution (3) Every twentieth century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation." Offered irregularly.

29.366 Presidents of the United States I (3) American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor problems have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Offered irregularly.

29.367 Presidents of the United States II (3) American Presidents from Andrew Johnson to Ronald Reagan. The course concentrates on how modern Presidents have used the power of the Presidency to deal with national problems, the rise of the Imperial Presidency, congressional resurgence, and the major Presidents of the twentieth century. Offered irregularly.

29.368 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts. Offered irregularly.

29.371 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. Offered irregularly.

29.374 Work and Workers (3) The history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing

"work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. Offered irregularly.

29.375 The Radical Tradition in the United States (3) The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s. Offered irregularly.

29.377 Public Policy in United States History (3) This course reappraises the history of public policy and its effect on the development of modern America from the early nineteenth century to the present, focusing on the government's role in continental expansion; in business and labor policies; in the Progressive Era; in response to the Great Depression; and in the assumption of international obligations. Offered irregularly.

29.384 Historical Editing (3) The course begins with the history of documentary editing and then gives the student experience in authentication and selection, annotation, and the presentation of historical documents. The student locates a collection of manuscripts, and makes a selection to produce a publishable mini-edition. Offered irregularly.

29.390 Independent Reading Course in History (1-6)

29.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

29.480 Major Seminar I (3) Methods and materials of historical research and writing, with emphasis on resources in the Washington area. Students design and outline research topics based in part on the use of primary sources. Required of all history majors. Normally followed by 29.481. Usually offered every fall. *Prerequisite:* senior or second-semester junior standing.

29.481 Major Seminar II (3) Completion of a substantial research paper based in part on the use of primary source materials. Required of all history majors. Usually offered every spring. *Prerequisite:* senior standing and 29.480.

29.490 Independent Study Project in History (1-6)

29.491 Internship (1-6)

Graduate and Advanced Undergraduate Courses

29.500 Studies in History (3) Rotating topics, including Twentieth Century European Studies, Nineteenth and Twentieth Century Russian and Soviet Studies, English and British Studies, Ancient Studies, American Political Studies, American Social Studies, American Cultural Studies, American Diplomatic Studies, and American Military Studies. Usually offered every term. *Prerequisite:* advanced undergraduate or graduate standing.

29.590 Independent Reading Course in History (1-6)

Graduate Courses

Note: Courses numbered 29.600 through 29.684 generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

29.600 Ancient Studies (3) Typical courses in ancient history: Greece in the Age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Suc-

cess—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves; and Espionage in the Ancient World. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.614 Eastern Europe since 1815 (3) The effects of nationalism, the fate of the peasantry, ethnic hostilities, World War I, the emergence of nation-states, and the Soviet domination of Eastern Europe. Usually offered alternate years.

29.617 Weimar Germany (3) This is the Germany described in the movie *Cabaret*. Cultural and political themes are stressed. Thomas Mann, Bertolt Brecht, Marlene Dietrich, Rosa Luxemburg, General Hindenburg, and Adolf Hitler are among the major figures. Expressionism, communism, and fascism confront the republican establishment. Offered irregularly.

29.618 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Meets with 29.318. Usually offered every spring.

29.620 War and Diplomacy: Napoleon to World War I (3) The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismarck's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the making of World War I. Offered irregularly.

29.621 War and Peace, 1914-1945 (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world." Offered irregularly.

29.626 European Society in the Nineteenth and Twentieth Centuries (3) Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "new Europe." Meets with 29.326. Offered irregularly.

29.627 Twentieth Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience. Meets with 29.327. Usually offered alternate years.

29.629 European Thought and Ideology (3) Rotating topical and chronological studies. Examples are European Communism and European Liberalism. Offered irregularly.

29.631 Modern Revolutions (3) The theory, patterns, and practice of twentieth century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effect of revolutions and the revolutionary potential of modern industrial societies. Usually offered alternate years.

29.632 Contemporary Historical Studies (3) Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.633 Tudor-Stuart England (3) England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution. Meets with 29.333. Offered irregularly.

29.634 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire. Meets with 29.334. Offered irregularly.

29.635 Twentieth Century England (3) Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture. Meets with 29.335. Offered irregularly.

29.636 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity. Meets with 29.336. Offered irregularly.

29.637 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern Britain, and Popular Rebels in Britain. Meets with 29.337. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.640 Latin American Studies (3) Rotating topics, including Diplomatic History of Latin America, Twentieth Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. Meets with 29.340. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.645 Russian Studies (3) Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472-1900; Russia in War and Revolution, 1855-1917; Twentieth Century Russian Diplomacy; Lord and Peasant; and Nineteenth Century Russian Literature and Society.

Meets with 29.345. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.647 Asian Studies (3) Topical courses in Asian history, including: China: from the Manchus to Mao; History of Japan; and India and the West. Meets with 29.347. May be repeated for credit in the same term; topic must be different. Offered irregularly.

29.650 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society. Meets with 29.350. Usually offered alternate years.

29.651 Era of the Revolution and Constitution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution. Meets with 29.351. Usually offered alternate years.

29.652 The Era of the New Republic, 1789-1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832-1833 and 1848-1850. Meets with 29.352. Usually offered alternate years.

29.653 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Meets with 29.353. Usually offered alternate years.

29.654 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Usually offered alternate years.

29.655 Emergence of Modern America, 1877-1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Populism and progressivism. Meets with 29.355. Usually offered alternate years.

29.656 Twentieth Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics. Meets with 29.356. Offered irregularly.

29.657 American between the Wars, 1919-1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies. Offered irregularly.

29.661 World War II: The Global Experience (3) World War II examined from a global perspective. Attention is given to leaders; Allied and Axis war strategies, battles, and tactics; the occupation policies of Nazi Germany and Japan; economic warfare; innovations in weaponry; the impact of the war on imperialism, nationalism, and communism; and the allied diplomacy that shaped the post-war world. Offered irregularly.

29.662 World War II: The American Experience (3) How the United States got into World War II; its diplomatic strategy and decisions. United States military efforts and leadership. The experience of G.I. Joe. Society and politics at home. The end of the war and the approach of the Cold War. Films, television, tapes, and guest speakers. Meets with 29.362. Usually offered alternate years.

29.663 Other Wars: Cold, Korean, and Vietnam (3) Origins and development of the Cold War. Revolution of American diplomacy in the Truman administration (Truman Doctrine, Marshall Plan, and NATO). The Korean War. The Cuban missile crisis. The Vietnam war. Diplomacy, military history, and strategy; dissent; and the Cold War's impact on society at large. Visual media and guest speakers. Meets with 29.363. Usually offered alternate years.

29.664 Twentieth Century United States Response to Revolution (3) Every twentieth century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation." Offered irregularly.

29.666 Presidents of the United States I (3) American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Offered irregularly.

29.667 Presidents of the United States II (3) American Presidents from Andrew Johnson to Ronald Reagan. The course concentrates on how modern presidents have used the power of the presidency to deal with national problems, the rise of the imperial presidency, congressional resurgence, and the major presidents of the twentieth century. Offered irregularly.

29.668 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including

Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts. Offered irregularly.

29.671 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. *Prerequisite:* graduate standing. Offered irregularly.

29.674 Work and Workers (3) The history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. Offered irregularly. *Prerequisite:* graduate standing.

29.675 The Radical Tradition in the United States (3) The history of the left and the radical social movements of workers, farmers, women, and blacks since the 1770s. Offered irregularly. *Prerequisite:* graduate standing.

29.677 Public Policy in United States History (3) This course reappraises the history of public policy and its effect on the development of modern America from the early nineteenth century to the present, focusing on the government's role in continental expansion; in business and labor policies; in the Progressive Era; in response to the Great Depression; and in the assumption of international obligations. Offered irregularly.

29.684 Historical Editing (3) The course begins with the history of documentary editing and then gives the student experience in authentication and selection, annotation, and the presentation of historical documents. The student locates a collection of manuscripts, and makes a selection to produce a publishable mini-edition. Offered irregularly.

29.690 Independent Study Project in History (1-6)

29.691 Internship (1-6)

29.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

29.720 Colloquium in Modern European History, 1789-1945 (3) This colloquium deals with major issues in European history from 1789 to 1945. It assumes some familiarity with the basic events and historiographic depth on issues such as the formation of mass political parties, imperialism, socialism, fascism, and World War II. Usually offered every fall.

29.727 Colloquium in United States History I: to 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographic disputes and developments in U.S. history to the end of the Civil War. Usually offered every fall.

29.728 Colloquium in United States History II: since 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important

historiographic disputes and developments in U.S. history from 1865 to the present. Usually offered every spring.

29.751 Research Seminar in European History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.752 Research Seminar in United States History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.797 Master's Thesis Seminar (1-6) Usually offered every term.

29.799 Doctoral Dissertation Seminar (1-12) Usually offered every term.

International Service

Undergraduate Courses

33.100 Political Concepts (3) Interaction of normative and empirical theory. Such concepts as politics, power, authority, legitimacy, the state, nationalism, and conflict, and their applicability to international and comparative politics and policy analysis. Usually offered every term.

33.110 Beyond Sovereignty /S 3:1 (3) The role of the sovereign state in a world of complex interdependence and the tension between nationalism and the necessity of cooperative global problem solving. Is the state becoming obsolete? Is global policy possible in such areas as environmental protection, resource management, and containment of the destructiveness of modern weapons? Usually offered every term.

33.120 Between Peace and War /S 3:1 (3) The politics of conflict, strategies of deterrence, and crisis management. Case studies and simulations are used to examine the perennial issue of state security, with emphasis on the problematic character of military means of achieving security in the nuclear age. Usually offered every term.

33.140 Cross-Cultural Communication /S 3:1 (3) This course examines the impact of culture on perception, thought patterns, values, and beliefs in order to better understand the behavior of individuals in different cultures. Specific concerns include cross-cultural conflict and negotiation; the relationship between dominant cultures and subcultures; the issues of race, gender, and class in various societies; and the dynamics of cross-cultural adjustment. Usually offered every term.

33.151 Western Tradition I (3) Origins in Judaism, Greek philosophy, and Roman law and administration. Phenomenon of growth and stagnation in classical, Islamic, and medieval Christian civilization. Millennialism and change. Usually offered every fall.

33.152 Western Tradition II (3) Crisis of religious man, birth of scientific civilization, rationalism, secularization, romantic reaction, and the roots of totalitarianism of the left and right. Usually offered every spring.

33.161 Civilizations of Asia (3) Comparative study of the major historical, political, and cultural traditions of Chinese, Japanese, Indian, and Southeast Asian peoples. Usually offered every term.

33.200 Liberalism and Its Critics /S 2:2 (3) Liberalism as a central tradition of the West. From its mid-seventeenth-century origins, liberalism has encountered a series of problems: of the individual, exchange, the public, limits, power, welfare, and the self. Close reading and discussion of exemplary texts by liberals in response to these problems and by critics of liberalism. Usually offered once each year. *Prerequisite for General Education credit:* 29.100 or 76.150.

33.202 World Politics /S (3) International relations as a specific process. Examines conflict and cooperation in international relations by analyzing diplomacy, alliances, international law and organization, and other forms of interaction. Usually offered every term.

33.206 Introduction to International Relations Research (3) Introduction to scientific method, data gathering, research design, statistical analysis, and computer applications for international relations and comparative studies research. The course is designed for the beginning student and employs a hands-on approach. The course also develops the analytical skills students need as active consumers of research findings. Applications are geared to research projects to be encountered in subsequent SIS courses. Usually offered every term.

33.210 Human Geography: Peoples, Places, and Cultures /S 3:2 (3) A topical investigation of the interrelationships between human institutions and their surrounding environment. This course provides a systematic spatial perspective to the interaction between physical, cultural, ecological, economic, and political systems on both a local as well as a global scale. Usually offered every spring. *Prerequisite for General Education credit:* 19.110 or 03.110. *Note:* not open to students who have taken 33.296 *Selected Topics: Human Geography*.

33.215 Competition in an Interdependent World /S 3:2 (3) Economic competitiveness is a major contemporary issue, not only for the major powers, but also for newly industrializing countries and for developing nations. The forces affecting international competition and competitiveness are discussed through an examination of both domestic United States issues (debt, deficit, innovation, trade, education) and international issues, both political and economic. Usually offered every term. *Prerequisite for General Education credit:* 53.130 or 33.110.

33.230 International Development /S 3:2 (3) As an introduction to international development this course is divided into three sections: development theories, development assistance, and structural adjustment. In each section a variety of approaches are analyzed, and students are expected to be able to discuss the basic assumptions of each approach and the policy prescriptions that would logically follow from these assumptions. Usually offered

every term. *Prerequisite for General Education credit:* 19.110 or 65.110. *Note:* not open to students who have taken 33.337 International Development.

33.245 The World of Islam /A 3:2 (3) This course brings to life the "inner dynamic" of Islamic culture and provides an inside look at the workings of Islamic society—a society seen as a whole with its own characteristic inner force and propellant. It introduces students to original readings illustrating the Islamic paradigm and discusses the complex relationship among reform, renewal, and fundamentalism stemming from this paradigm. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 61.185.

33.250 Civilizations of Africa /A 3:2 (3) By concentrating on African societies and states, ancient and modern, the course aims to create a greater understanding of, and empathy with, the Africans: the diversity, history, culture, accomplishments, and problems of the people and their continent; and the interaction of their culture with Islam and the West. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 23.150 or 65.110. *Note:* not open to students who have taken 33.165 Civilizations of Africa.

33.255 Japan and United States /A 3:2 (3) A multidisciplinary introduction to Japan and Japanese life. It explores the history, culture, social structure, literature, art, politics, economics, and foreign relations of this important country and invites contrasts with the United States. Usually offered every spring. *Prerequisite for General Education credit:* 33.140 or 61.185. *Note:* not open to students who have taken 00.200 or 33.296 Japan and America.

33.258 Contemporary Russia /S (3) Russia's contemporary political culture and its historical, economic, geographic, and social roots. Usually offered every fall.

33.259 Comparative Change in East Europe (3) A comparative survey of changes occurring in Post-Cold War East Europe including Albania, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, and Yugoslavia. A systematic examination of the emerging new political cultures. Usually offered every spring.

33.264 Contemporary Middle East /S (3) The Middle East's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the Arab world. Usually offered every term.

33.265 Contemporary Africa /S (3) Africa's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to Africa south of the Sahara. Usually offered every term.

33.276 Contemporary Latin America (3) Major political, social, and economic change in Latin America, its foundations, factors accelerating and impeding it, and prospects and trends. Usually offered every term.

33.301 Theories of International Politics (3) Major trends in recent thought, including systematic and behavioral modes of analysis. Problems of explanation and theory building in social sciences with special reference to international studies. Usually offered every fall.

33.307 Quantitative Approaches to International Politics (3) Study of selected applications of quantitative

measurement in international relations research. Usually offered every term. *Prerequisite:* 33.206 or 42.202 or equivalent.

33.308 Introduction to Peace and Conflict Resolution (3) Conflict and violence, as well as cooperation and peaceful change, within and among individuals, cultures, and systems. Effective means for diminishing the level of violence, for increasing the potential for non-exploitative cooperative coexistence, and for collaborative conflict resolution are explored. Usually offered every term. *Note:* not open to students who have taken 33.396/696 Selected Topics: Introduction to Peace and Conflict Resolution.

33.321 International Law (3) Institutions of international politics, with emphasis on the nature and function of international law. Usually offered every term.

33.322 Human Rights (3) This course examines human rights as a global concern in terms of the following: the role of human rights in foreign policy; cultural and ideological perspectives; regional human rights systems; world resources, hunger, poverty, and refugees; and the effects of modernization and development on human rights. Usually offered every spring.

33.325 International Organization (3) Institutions of international politics, with emphasis on the nature and functions of international organization. Usually offered every term.

33.328 Approaches to Peacemaking (3) The theory, history, and methodologies of four approaches to peacemaking: 1) peace through nonviolent action for social change, 2) peace through world order (laws and organizations), 3) peace through collaborative problem solving, and 4) peace through personal and social transformation. Usually offered every fall. *Recommended prerequisite:* 33.308. *Note:* not open to students who have taken 33.519 Special Studies in International Politics: Peace Paradigms.

33.331 An Overview of the European Community (3) The course helps students find their way around the Community of the Twelve and its institutions and to comprehend its historical roots, the variety of its political scenery, the unity of its different cultures, the strength of its economy—in brief to become aware of the European identity. Usually offered every term.

33.340 Foundations of International Communication (3) The sociology, psychology, and anthropology relevant to the transmission of ideas, perceptions, and feelings between and within cultures. Communication models, perceptions theories, cultural contacts, technological change, public opinion, propaganda, and logic system. Usually offered every term.

33.341 Intercultural Communication (3) The primary focus of this course is on the dynamics of intercultural communication as it relates to interpersonal interactions across cultural boundaries. The course looks at cultural differences in verbal and nonverbal communication patterns, interpersonal relationship development, and intercultural adaptation processes. Usually offered every term.

33.349 Selected Topics in International Communication (3) Cross-cultural problems of communication, research techniques in international communication, and

the role of the media in cross-cultural communication. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.351 Culture and Society: Marx to Weber (3) Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplovicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, impressionism, German expressionism, and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy are desirable.

33.352 Culture and Society: Freud to Sartre (3) The beginnings of psychoanalysis; Nietzsche and antifunctionalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, and European history are desirable.

33.355 The Relations of West European Nations (3) World War II diplomacy as it affected Europe's postwar position, and the origins and development of the cold war in Europe. French and West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; European unity with emphasis on the European Community; U.S.-European relations and issues of European security. Usually offered every spring.

33.359 Soviet Union in World Affairs (3) Analysis of recent interstate relations in the zone of Soviet influence and the place of the USSR in world affairs. Usually offered every spring.

33.364 Modern Islam (3) The nineteenth century Islamic reform movements in the Middle East and North Africa and the twentieth century neofundamentalist militant movements. The conflict between these movements and the forms of secular nationalism that developed during the same period. The impact of the Islamic movements on societies oriented toward Westernization and nationalism. Usually offered every spring. *Prerequisite:* 33.164 or 33.245.

33.365 Arab-Israeli Relations (3) A survey of Arab-Israeli relations from their origins to the present. Includes an account of Zionism and Palestinian nationalism, the history of the British mandate, the Arab-Israeli wars, the involvement of external powers, and the quest for peace. The emphasis is on conflict resolution. Designed as a sequel to 33.264, although this course is not a prerequisite. Usually offered every spring. *Prerequisite:* 33.264 recommended.

33.366 Asian Power Rivalries (3) International politics from Asian perspectives, with particular attention to complex relationships between China, the Soviet Union, India, and Japan. Usually offered every fall.

33.370 Political Geography: Concepts and Issues (3) Political geography is concerned with politically organized areas, their potential and extent, and the interaction between geography and political processes. Topics to be covered include cross-national boundary conflicts, ethnicity and politics, the relationship between resources and power, the law of the seas, and the geopolitics of foreign trade. Usually offered every term.

33.372 Brussels Seminar /S 3:2 (4) Part of the Study Abroad Semester in Brussels, this course covers the entire spectrum of U.S.-West European political, economic, and security relations. Selected topics include NATO, U.S.-West European economic and trade relations, the Soviet Union and problems of European security, Europe and the Third World, West European demographics, social and industrial relations, and employment policies. Usually offered every term. *Prerequisite for General Education credit:* 33.110 or 33.140 or 53.130.

33.373 Madrid Seminar /S 3:2 (4) Part of the Study Abroad Semester in Madrid, this course covers the politics, economy, culture, society, and foreign relations of Spain. Selected topics include cultural norms of the Spanish family, the history of Spanish culture and thought, the impact of the European Common Market, Spain's foreign policy, the role of the monarchy in Spanish political life, regionalism and its significance today, the roles of major political parties, and the capacity for long-range development planning. Usually offered every spring. *Prerequisite:* second semester sophomore standing and two years of college Spanish.

33.374 Buenos Aires Seminar /S 3:2 (4) Part of the Study Abroad Semester in Buenos Aires, this course covers the politics, economy, culture, society, and foreign relations of Argentina. Selected topics include the political process and the party system, industrialization, inflation, and debt, and Argentina as a middle power in the international system. Usually offered every fall. *Prerequisite for General Education credit:* 33.140 or 53.130 or 65.110.

33.375 Vienna Seminar: Contemporary Austria, Germany, and Switzerland /S 3:2 (4) Part of the Study Abroad Semester in Vienna, this course examines the political systems, economics, cultures, and societies of Germany, Austria, and Switzerland. It functions as the core course of the Vienna Semester. In addition to lectures by the director of The American University Center in Vienna, representatives from the political scene, the diplomatic corps, the United Nations, industry, trade associations, and the press speak on topics appropriate to their expertise. Usually offered every term.

33.376 Brussels Seminar Internship (4) May be repeated for credit in the same term; topic may be the same. Usually offered every term.

33.377 Madrid Semester Internship (4) Internships of sixteen to twenty hours each week in one of several multinational and international organizations based in Madrid under the supervision of the resident professor. Usually offered every spring. *Prerequisite:* second semester sophomore standing and two years of college Spanish.

33.378 Buenos Aires Internship (4) Usually offered every fall.

33.379 Vienna Semester Internship (3-6) Students have the opportunity to participate in an internship program while studying in Vienna. Positions are available in political organizations, corporations, and civic groups for qualified students in the program. These internships are under the academic supervision of the Vienna Semester Resident Professor. Students are expected to attend classes and complete academic assignments in addition to working in these organizations. Usually offered every term. *Prerequisite:* participation in the Vienna Semester Program and acceptance by the World Capitals Program.

33.381 Foreign Policies of the Great Powers (3) Analysis of the historical evolution and contemporary development of the foreign policies of the United States and the Soviet Union, including the role of China in the foreign policy of each. Emphasis is on the interaction of the policies and behavior of the major powers. Usually offered every fall.

33.382 The Analysis of United States Foreign Policy (3) Approaches to the study of American foreign policy processes and decision making; the role of the President, the bureaucracy, the Congress, and public opinion. Attention to U.S. relations with select countries and regions. Usually offered every term.

33.384 American Defense and Security Policy (3) United States national security policy formulation, including organizational politics, NSC systems, state and defense departments, the intelligence community, defense budgeting, weapons acquisition, and executive-legislative relations. Usually offered every spring.

33.385 United States Foreign Economic Policy /S (3) Major factors and issues in U.S. international economic relations in terms of trade-offs between political and economic priorities; emphasis on U.S. international trade, finance, development, energy, and investment policies. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

33.389 Selected Topics in Policy Analysis (3) Analysis of topics in public policy, with special attention to diplomatic, security, economic, or environmental policies. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.390 Independent Reading Course in International Studies (1-6)

33.391 Internship in International Affairs (1-12) Direct involvement in policy-making through participation in a government agency or nongovernmental organization. Credit varies depending on the nature of internship and the number of hours involved. *Prerequisite:* permission of coordinator of internships.

33.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

33.400 Senior Seminar in International Relations (3) A capstone experience for SIS majors. Designed to facilitate integration of knowledge in the international relations field. Development and oral defense of significant research projects. Focus of seminar varies by section. Usually offered every term.

33.465 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the U.S. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 19.311.

33.466 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3) The major issues confronting U.S. foreign economic policy in the sectors of finance, energy, development, and the international monetary system. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 19.311.

33.486 Peace and Conflict Resolution Seminar I (4) Explores conflict, peacemaking and conflict resolution from various perspectives and prepares students with conflict resolution and change skills to participate actively and creatively in building a global society based on peace, justice, and nonviolent resolution of conflicts. Usually offered every fall and spring. *Prerequisite:* permission of department.

33.487 Peace and Conflict Resolution Seminar II (4) Continuation of 33.486. Usually offered every term. *Prerequisite:* permission of department.

33.488 Peace and Conflict Resolution Research Project (4) Students select a topic related to peace and conflict resolution, and write an in-depth research paper of approximately 35 pages. Research skills, analysis, written skills, and a certain degree of originality are emphasized. Usually offered every term. *Prerequisite:* permission of department.

33.489 Peace and Conflict Resolution Internship (4) This course provides students with first-hand experience as members of the intern staff of organizations directly involved in a variety of peacemaking and social change efforts. Students choose their own internships based on individual interests. Usually offered every term. *Prerequisite:* permission of department.

33.490 Independent Study Project in International Studies (1-6)

33.491 Washington Foreign Policy Seminar I (4) *Foreign Policy Semester:* Innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts for one semester to United States foreign policy formulation and implementation. Systematic study of foreign policy emphasizes qualitative analysis and employs quantitative methods as appropriate. Students participate in seminars, workshops, on-site observation, and individual and joint research projects, and meet with foreign policy makers and influencers from government, media, and other private-sector organizations. Internship optional. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.492 Washington Foreign Policy Seminar II (4) Continuation of 33.491. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.493 Washington Foreign Policy Research Project (4) Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.494 Washington Foreign Policy Internship (4) Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

33.498 Senior Honors (3) Usually offered every term.

Graduate and Advanced Undergraduate Courses

33.504 Multinational Corporations (3) The structure and functions of multinational corporations in the global system and their developmental effect on other actors. Usually offered every term.

33.513 Computer Applications in International Relations Research (3) The use of the Statistical Package for the Social Sciences (SPSS) and multivariate statistical methods in international relations research. Usually offered every term. *Prerequisite:* 33.307 or 33.600.

33.518 Diplomacy of World War II (3) Foreign policies of the Axis countries (Germany, Italy, and Japan) and the major allied powers (U.S., U.K., USSR, France, and China). International conferences and agreements leading to the Potsdam conference and the organization of the U.N. The relation of wartime diplomatic developments to current issues in international relations. Usually offered alternate falls.

33.519 Special Studies in International Politics (3) Topics have included population dynamics, war crimes, ethnicity and international politics, Chinese ideology, and reform and revolution in Latin America. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.520 Survey of International Law and Organization (3) Graduate introduction to the nature and functions of international law and the interstate system within which it operates. Emphasis on recent trends and future capabilities. For graduate students who have no previous courses in international law or international organization. Usually offered every fall.

33.530 Colloquium on the Common Market (3) Taught in French. Topics include institutional development, financing of community activities, community policies, external relations, community law, and business case studies. Specific issues within each area rotate regularly every semester over a two-year cycle. Usually offered every term.

33.533 Seminar on the European Community's Current Programs (3) Current community policies and their relevance to the achievement of a closer European union. Topics include: Internal Market, Financing Community Activities, Common Agricultural Policy (CAP), Regional Policy, Lomé Convention, Transport, Energy, Research and Technology, A People's Europe, Social Policy, Structural Environment, Economic and Monetary Union, and Community Law. Usually offered every spring.

33.534 World Human Needs and International Planning (3) Social, economic, political, and moral implications

of the growing chasm between rich and poor nations; world population growth, resources, and environmental pollution; differences of opportunity for food and health; housing, education, employment, social security, migration, and brain-drain; implications of resentment and violence potentials; and problems and possibilities of international planning. Usually offered every fall.

33.536 Special Topics in International Development (3) Topics have included world food resources and policy, international administration, international planning, world population dynamics, disaster preparedness and relief, world housing, and world geography. May be repeated for credit in the same term; topic must be different. Offered irregularly.

33.537 Special Topics in Development Management (3) Topics include managing rural development; agriculture and international development; migration, urbanization, and regional planning; development project management; development evaluation, and similar subjects. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.230, 33.637, or equivalent.

33.551 Politics and Society in Western Europe since 1945 (3) The political systems, values, and sociological changes in West European society since 1945; an analysis of European nations and regions and of different levels of development and economic organization. Usually offered every fall.

33.557 Foreign Policy Formulation in West European States (3) Conditioning factors, instrumentalities, political parties, pressure groups and organizations, and public media and opinion. Usually offered every spring.

33.558 Soviet Political System (3) The Soviet political system and its relationship to political culture and the formation of social values. Emphasis is on the Communist Party and the interdependence of political and social behavior. Usually offered every fall.

33.559 Selected Topics in Cross-National Studies (3) Topics include comparative ethnic politics, comparative class formations, comparative strategies of modernization, comparative communist systems, culture and communication in cross-national studies; usually with a geographical, regional focus. May be repeated for credit in the same term; topic must be different. Offered irregularly.

33.561 Modern China (3) Emergence of China as a world power, with emphasis on economic, political, and social trends in the People's Republic of China today. Usually offered alternate springs.

33.562 Modern Japan (3) Continuity and change in postwar Japanese society as contrasted with the prewar society. Usually offered alternate falls.

33.565 Japanese-U.S. Economic Relations (3) An examination of the economic and cultural factors contributing to the frictions and imbalances in the trading relationship of the world's two largest economies. The sources of divergent trade performances and dissimilar trade policies in Japan and the United States are analyzed, as well as efforts to restore bilateral harmony and equilibrium. Usually of-

ferred every spring. *Prerequisite*: six hours of basic economics.

33.567, 33.568 International Relations of East Asia I, II (3), (3) Recent historical and contemporary interstate relations in East Asia, and the place of East Asia in world affairs. Usually offered every term.

33.569 International Relations of Southeast Asia (3) Recent and contemporary interstate relations in Southeast Asia and the place of Southeast Asia in world affairs. Usually offered alternate springs.

33.571, 33.572 International Relations of the Middle East I, II (3), (3) Recent historical and contemporary interstate relations in the Middle East and North Africa and the place of the Middle East in world affairs. Usually offered every term.

33.573 International Relations of Africa I (3) Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term. *Prerequisite*: 33.250 or 33.265 or graduate standing.

33.574 International Relations of Africa II (3) Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term.

33.577, 33.578 International Relations of Latin America I, II (3), (3) Recent and contemporary interstate relations in Latin America and the place of Latin America in world affairs. Usually offered every term.

33.579 Selected Regional and Country Studies (3) Selected topics in contemporary international relations with regional or area focus. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite*: appropriate regional course at the 500 or 600 level or equivalent.

33.581 Schools of Thought in Contemporary United States Foreign Policy (3) Seminar examining disparate normative assumptions about United States foreign policy. A wide spectrum of viewpoints is examined, and students explore their own values as they relate to foreign policy. Usually offered every spring.

33.582 International Organizations and Latin American Development (3-6) Drawing on Washington-area resources relating to Latin America and to inter-American affairs (e.g., OAS, Inter-American Development Bank, USAID, AID, and the Latin American diplomatic community), the course examines selected major issues in inter-American relations with a focus on the role of international and U.S. agencies and on foreign policies of individual Latin American nations. Usually offered every summer.

33.583 United States in World Affairs (3) The role of the United States in world affairs and in contemporary regional issues. Focuses on U.S. interests in the Middle East, Europe, southern Africa, Central America and East Asia. Usually offered every fall.

33.588 International Security and Arms Control (3) The strengths and weaknesses of arms control. Examination of the military strategy-policy relationship, deterrence

theory, strategic posture and doctrine, and terrorism. Usually offered every spring.

33.589 Selected Topics in Comparative Policy Analysis (3) Topics include comparative and foreign policy arenas such as welfare, education, science, housing, health, and development strategies (defense and disarmament, foreign economic policy); usually with a geographical, regional focus. May be repeated for credit in the same term; topic must be different. Usually offered every fall.

33.590 Independent Reading Course in International Studies (1-6)

33.593 Humphrey Fellows Seminar (3) A special seminar for Hubert Humphrey Fellows. Topics vary with the semester. Usually offered every term. May be repeated for credit, but not within the same term; topic must be different. *Prerequisite*: open to Humphrey Fellows; other students admitted by permission of instructor.

Graduate Courses

33.600 Introduction to Quantitative International Relations (3) Introduction to research design, quantitative measurement, statistical analysis, and computer use for international relations research. Usually offered every term.

33.601 Theory in International Relations (3) Interdisciplinary perspectives; major paradigms of thought; definition of boundaries of the field; normative and analytic goals and definition of priorities. Usually offered every fall.

33.602 Contemporary International Politics (3) The course covers a number of contemporary topics from a diversity of perspectives. Topics include East-West relations, regional integration and fragmentation patterns, North-South relations, development and interdependency challenges, and the emergence of new actors in the international system. Usually offered every term.

33.604 Masterworks of International Relations (3) A literature course divided into twenty-one topics which are chronologically ordered by reference to the date of works initiating streams of discourse. Representative later works are also covered. Students are required to keep a working journal of their reading notes for the instructor's inspection. Usually offered every spring.

33.605 Cooperative Global Politics (3) This course examines the historical movement toward stability and order in the international political system with emphasis on comparing such concepts as nation-state/one world; national interest/human interest; rights of states/human rights; sovereignty/interdependence; war/collaborative conflict resolution. The concepts that underlie the competitive model of world politics—individualism, rationality, and self-interest—are analyzed within the global political context. Usually offered every fall.

33.606 Global Politics as Cultural Activity (3) The purpose of this course is threefold: first, to investigate the hypothesis that world politics is a cultural activity; second, to begin the articulation of a theoretical basis for a cultural analysis of world politics; and finally, to investigate whether such analysis provides a stronger basis for stabil-

ity and order in the international system. Usually offered every spring.

33.607 Peace Paradigms (3) The history and development of approaches to peace, with particular emphasis upon the following: peace through coercive power, peace through nonviolence, peace through world order, and peace through personal and community transformation. Usually offered every spring.

33.608 Educating for Global Citizenship (6) This six-week institute for elementary and secondary teachers examines the dynamics of conflict and peacemaking through a case study approach to current conflicts. Review and development of curriculum materials, and instruction in conflict resolution skills provide the context for transferring the themes of the institute to classroom situations. Usually offered every summer. *Prerequisite:* permission of instructor.

33.615 Fundamentals of United States Foreign Economic Policy (3) Analysis of the principal American policies of international trade, finance, development, energy, and investment. Issues are examined in the context of foreign and domestic economic and political considerations. Usually offered every fall. *Prerequisite:* 19.100, 19.311, or equivalent.

33.621 International Law and the Legal Order (3) The nature and functions of international law in interstate relations, with emphasis on recent trends in scholarship and on cases, documents, and other original materials. Usually offered every spring.

33.625 World Organization and World Order (3) The origins, principles, organization, activities, and circumstances of the League of Nations, United Nations, and allied models of future world order. Theoretical aspects are emphasized. Usually offered every spring.

33.630 The European Community and International Trade (3) The course addresses all students interested in increasing their knowledge of the European Community. It deals primarily with the development of the Community, its institutions, various common policies, external relations, and laws in the larger context of international business. Usually offered every fall.

33.636 Micropolitics of Development (3) People and their choices in developmental change. Some persons work within credit unions, cooperatives, parties, interest groups, or alone without much group support. Others rely on patrons, prayers, bribes, threats, or combinations of all these resources for survival. An understanding of survival struggles and strategies is the objective of this course. Usually offered every term.

33.637 International Development (3) Alternative theories and definitions of development as expressed in the major international institutions (aid agencies, cartels, multinational corporations) concerned with the transfer of resources. Considers the problems of the "change-agent" in working for development and examines the major development issues. Usually offered every term.

33.638 Selected Topics in International Development Skills (1) Introduction to a specific technique or approach currently used in the international development field,

focusing on project planning, community development, action research, or another similar area. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.637, 19.560, or equivalent.

33.639 Development Problems and Sectoral Strategies (3) Examination and evaluation of the translation of international development theory into policy, programs, and projects, with particular emphasis on the following sectors: food and nutrition, health and family planning, human resource development, and energy and environmental activities. Offered irregularly. *Prerequisite:* 33.637 recommended but not required.

33.640 International Communication (3) International communication as a field of inquiry and research: perspectives, theories, and assumptions underlying communication between nations and peoples; international flow of information and its implications in relations among nations and cultures. Usually offered every term.

33.641 Psychological and Cultural Bases of International Politics (3) Phenomena and problems of international relations in terms of underlying cultural and psychological forces. Theory of international relations from the point of view of the behavioral sciences. Usually offered every spring. *Prerequisite:* 33.340 or 33.640.

33.642 Cross-Cultural Communication (3) Contribution of relevant social and behavioral sciences to the study of intercultural and cross-cultural communication. Analysis of culture as communication and value-systems as essential in communication. Usually offered alternate springs. *Prerequisite:* 33.640 or equivalent.

33.643 Communication and Political Development (3) Role of communication and media, both modern and traditional, in the processes of political socialization, mobilization, and political development. Usually offered every fall. *Prerequisite:* permission of instructor.

33.644 Communication and Social and Economic Development (3) Examination of economic, communication, and development theories, the role of information and communication technology in social and economic development; transfer of technology and uses of communication in economic growth, social change, and national integration. Usually offered every spring. *Prerequisite:* 33.640.

33.645 International and Comparative Communication Policies (3) Examination of communication systems and policies at national, regional, and international levels; the role of international organizations in the formation and implementation of communication policies; political economy of information and transborder data flow. Usually offered every fall and summer. *Prerequisite:* 33.640.

33.651 Culture and Society: Marx to Weber (3) Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplowicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, impressionism, German expressionism, and Italian futurism. Usually offered every fall. *Prerequisite:*

courses in sociology, literature, and philosophy are desirable.

33.652 Culture and Society: Freud to Sartre (3) The beginnings of psychoanalysis: Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; Intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, European history are desirable.

33.655 International Relations of Western Europe (3) World War II diplomacy affecting postwar Europe and the origins and development of the cold war. European security; West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; and French foreign policy through the Gaullist period. Usually offered every fall.

33.656 Contemporary International Relations of Western Europe (3) Theoretical approaches to the study of European integration. Evolution of West European unity since World War II with emphasis on the European Community, United States-West European relations since the 1960s, and contemporary issues of European security. Usually offered every spring.

33.659 International Relations of the Soviet Union (3) Analysis of recent and contemporary interstate relations in areas of Soviet influence and the place of the USSR in world affairs. Usually offered every fall.

33.664 Islam and Nationalism: Middle East (3) Lectures and discussions on secular nationalism and Islamic militancy in the Middle East and North Africa during the past one hundred years; the origins and characteristics of the movements; the conflict between them and its impact on the politics and international relations of the area; the emergence of neofundamentalist Islamic movements. Usually offered every spring.

33.665 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the U.S. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 19.611 or 33.615.

33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3) The major issues confronting U.S. foreign economic policy in the sectors of finance, energy, development, and the international monetary system. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.615 or 19.611.

33.670 Theory and Method in Cross-National Studies (3) Theoretical and methodological approaches to cross-national studies and their historical development; implications for contemporary research in comparative political and policy analysis; policy relevance of contending approaches [e.g., conflict versus consensus]. Usually offered every fall.

33.671 Seminar in Comparative Analysis (3) An examination within a historical framework of the interrelationships between civil society and the modern state, placing in perspective issues related to civil rights and the social and political dynamics which underscore this process. Usually offered every fall. *Note:* not open to students who took 33.670 Theory and Methods of Cross-National Studies in spring 1990.

33.682 United States Foreign Policy (3) Analysis of American foreign and defense policy processes, including the role of the President, Congress, Departments of State and Defense, the intelligence community and other actors/factors affecting policy formulation and implementation. Usually offered every fall.

33.683 Congress and Foreign Policy (3) An examination of the role that the U.S. Congress plays in shaping foreign policy. Emphasis is given to contemporary congressional behavior, through case studies, with attention also devoted to constitutional factors and historical patterns. Usually offered every fall.

33.684 National Security Policy (3) Policy making, implementation, and control; civilian-military, military-industrial, and executive-legislative relations; and the interaction of security policies of the United States and other powers. Usually offered every fall.

33.689 Seminar in Foreign Policy Analysis (3) Graduate research seminars focusing on selected topics; analysis of Soviet policy-making, domestic and foreign. Approaches to foreign policy analysis. Cognitive mapping in international relations. Social indicators in foreign policy research. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

33.690 Independent Study Project in International Studies (1-6)

33.691 Internship in International Affairs (1-12) Direct involvement in policy making through participation in a governmental agency or nongovernmental organization. Credit varies depending on nature of internship and number of hours involved. Usually offered every term. *Prerequisite:* permission of coordinator of internships, SIS.

33.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

33.693 Practicum: Action Research in Development Management (6) Action research, supervised by a faculty member, involves development management degree candidates in analyzing an organization and its interaction with its environment and clientele. Special attention is given to improving organizational responsiveness to community needs. *Prerequisite:* 19.560, 33.636, 33.637, 54.610, and 54.614.

33.695 Research Seminar in International Communication (3) Role and trends of research in international communication; examination of content, strategy and methods; critical analysis of varying schools of thought. Usually offered every spring and summer. *Prerequisite:* 33.640.

33.701 Classical Theory in International Relations (3) A historical/developmental survey of international rela-

tions, beginning with the post-World War I era. Professor and students examine the proposition that the literature of this relatively new field reflects and indeed grows out of the changing patterns of world politics at the time of writing. Usually offered every fall. *Prerequisite*: admission to the Ph.D. program in International Relations.

33.702 Comparative and Cross-National Studies (3) Theoretical and methodological approaches to comparative and cross-national studies, with emphasis on the systemic context for political activity and how this is manifested in public and international policy. Literature drawn from several social sciences, with attention to policy and political systems in different types of countries. Usually offered every spring. *Prerequisite*: admission to the Ph.D. program in International Relations.

33.703 Contemporary Theories of International Relations (3) This course critically reviews developments in international relations theory over the last decade. Usually offered every fall. *Prerequisite*: admission to the Ph.D. program in International Relations.

33.704 Conduct of Inquiry in International Relations (3) Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of international relations. Usually offered every spring. *Prerequisite*: admission to the Ph.D. program in International Relations.

33.710 Colloquium in International Relations (3) Intensive dialogue between faculty members and doctoral students in the international relations field. Some M.A. students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Graduate Office, School of International Service. Preparation for comprehensive examination. Offered irregularly.

33.715 Seminar on Advanced Research Design (3) An overview of social science research methodology issues guiding students in the design of their own research projects. Usually offered every spring. *Prerequisite*: matriculation in doctoral program.

33.725 Seminar on Law in International Affairs (3) The history and theory of international law, major areas of change in contemporary law, and the role of the practitioner. Research in students' special fields. Usually offered every spring. *Prerequisite*: School of International Service; signature of instructor; Washington College of Law; admission to J.D./M.A. program and second- or third-year standing.

33.729 Research Seminar in International Law and Organization (3) Research seminar organized according to need around a substantive problem focus, a technique focus, or a more general focus. Preparation for comprehensive examination. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite*: 33.621 or 33.625.

33.740 Colloquium in International Communication (3) Intensive dialogue between faculty members and doctoral students in international communication. Master's

students who plan to take their comprehensive examinations are admitted with permission. Usually offered every spring.

33.795 Master's Research Requirement (3-6) *Prerequisite*: consult department.

33.797 Master's Thesis Supervision (1-6)

33.799 Dissertation Seminar (1-12) Members of the SIS faculty, invited scholars, and doctoral students who have readied dissertation proposals make formal scholarly presentations. Usually offered every term. *Prerequisite*: Matriculation as doctoral student in residence.

Jewish Studies

Undergraduate Courses

34.101 Introduction to Jews and Judaism /A (3) A survey of Judaism—its rituals and major institutions—from its origins in antiquity to the modern Reform, Orthodox, and Conservative movements; also includes a discussion of the variety of secular expressions of Judaism adopted by American Jews. Usually offered every fall.

34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3) Examines the independent Jewish states that flourished in Palestine, the rise of the most important Jewish communities outside the ancient Jewish homeland, and the foreign influences that shaped not only the political life of the Jews but also their internal organization and their creativity. Usually offered every fall. *Prerequisite for General Education credit*: 07.100 or 23.115 or 73.110.

34.206 Modern Jewish Civilization /S (3) A survey of the ways Jews responded to the challenges of modernity. These reactions included the creation of new Jewish communities in America and Israel, shifts in Jewish political status, and innovations in Jewish religious and intellectual life such as Zionism and Hasidism. Usually offered every spring.

34.211 Humanity and Jewish Identity /A (3) Factors and issues that affect Jewish identity, such as assimilation, intermarriage and conversion, anti-Semitism, education, philanthropy, religious denominations, the synagogue, rituals, and the role of women. The impact of Israel, the Holocaust, and Soviet Jewry on Jews and Jewish institutions. Usually offered every spring.

34.301 Introduction to Jewish Literature (3) A survey of the ways Jews have expressed themselves in literary forms, beginning with the Bible and continuing with Biblical commentaries, the Talmud, medieval poetry, legal codes, and contemporary Jewish writing on the historical experience. Offered irregularly.

34.305 Judaism and Current Issues /S (3) Analysis of varied Jewish positions on some key issues of our time, such as Soviet Jewry, the role of women, the "Moral Majority," religion and state, anti-Semitism, abortion, biomedical ethics, and terrorism. Usually offered alternate falls.

34.310 Topics in Jewish Religion and Thought /A (3) Rotating topics on the intellectual and theological dimensions of the Jewish people. Personalities, such as Martin

Buber; movements, such as Reform Judaism; or fields of study, such as Jewish mysticism. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring.

34.312 Holocaust and Modern Man /A (3) Analysis of the roots of pathological anti-Semitism and racism that led to the Holocaust. Description of the intended "final solution," with attention to the responses of Jews and the nations of the world. Theological problems of explaining the Holocaust. Usually offered every fall.

34.320 Topics in Jewish Culture (3) Rotating courses on historical and contemporary aspects of the Jewish heritage, such as Judaism and Hellenism; Judaism and Islam; art, dance, and drama as expressions of the Jewish spirit; and Jewish education, content, and method. May be repeated for credit but not in the same term; topic must be different.

34.328 Judaism and Christianity in Dialogue (3) This is a course generally taught by a Jewish scholar and a Christian scholar. The theological differences and similarities between the two traditions are discussed from all points of view. The origin of Christianity out of Judaism and the divergencies in their respective directions are analyzed. Attention is also given to agreement and conflict on political and social issues, such as abortion, church and state, missionary activity, and religious prejudice. Usually offered alternate springs.

34.330 The American Jewish Community /S (3) Today American Jewry constitutes the preeminent Diaspora Jewish community. This course traces the remarkable development of this group by examining the waves of Jewish immigration to the United States and the institutions that American Jews created to sustain their community. Usually offered alternate springs.

34.340 Topics in Jewish Literature /A (3) An in-depth examination of one theme or period in Jewish literature. Topics include Holocaust literature, modern Hebrew poetry, Jewish liturgy and song, Yiddish literature, American Jewish literature, and folktales. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

34.385 Zionism and the State of Israel /S (3) Zionism as a philosophy; the concept of Zion in post-Biblical literature and thought; the establishment of the state of Israel, its current status and problems, and its relationship to the Arab world. Usually offered every spring.

34.390 Independent Reading Course in Jewish Studies (1-6)

34.481 Senior Thesis in Jewish Studies (3) Jewish studies majors prepare a thesis on a topic selected after consultation with the student's adviser. Usually offered every spring. *Prerequisite:* all other Jewish studies program major requirements.

34.490 Independent Study Project in Jewish Studies (1-6)

34.491 Internship in Jewish Studies (1-6) The internship provides the student an opportunity to enrich organizational skills and experience. The student earns university credit for the work and contributes needed

services to the host agency, such as community relations, religious, Israel-centered, or social welfare. The amount of credit depends on the number of hours of work. Usually offered every term.

Graduate and Advanced Undergraduate Courses

34.502 The Modern Jewish Experience in Literature (3) The experience of the Jewish people in the twentieth century as it is reflected in the works of modern Jewish writers from Israel, Europe, and America, including the following: Malamud, Wiesel, Schwarz-Bart, Wouk, Sholom Aleichem, Mendele Mocher Seforim, A.B. Yehoshua, and Amos Oz. The effects of historical and cultural differences are analyzed. Usually offered alternate years. *Prerequisite:* knowledge of twentieth century Jewish life, a previous course in literature, permission of instructor.

34.504 Jewish Ethics and Values (3) An introduction to advanced methods of handling Jewish texts dealing with legal, ethical, and moral issues confronting modern society. Topics such as birth control, abortion, zero population growth, gambling, women's liberation, cruelty to animals, euthanasia, business ethics, and the conflict of ethics and law are studied. Usually offered alternate years. *Prerequisite:* knowledge of basic Jewish philosophical and rabbinic concepts and permission of instructor.

34.506 Jewish Social, Political, and Cultural Institutions (3) An introduction to advanced methods of handling Jewish texts dealing with social, political, and cultural issues confronting Jewish societies throughout the ages. Topics include Jewish education and scholarship, Jewish self-government, Zionism, and Jewish philanthropic institutions. Usually offered every spring. Offered irregularly. *Prerequisite:* permission of instructor or program director.

34.508 Analysis of Jewish Liturgical Texts (3) An in-depth study of liturgy in Judaism. The major vehicle for the study is the liturgy itself, but the class also does readings from the secondary literature. The liturgical texts are drawn from classical and contemporary sources. Offered irregularly.

34.590 Independent Reading Course in Jewish Studies (1-6)

Graduate Courses

34.690 Independent Study Project in Jewish Studies (1-6)

Language and Foreign Studies

CHINESE

36.112 Chinese, Intensive Elementary I /A (6) Understanding and speaking conversational Chinese and reading simple texts. Emphasis on audio-lingual skills. Common speech situations. Pronunciation drills, structural pattern drills within the limits of a basic vocabulary, and exercises in the Chinese writing system constitute the main part of classroom and laboratory activities. Usually offered every fall.

36.113 Chinese, Intensive Elementary II /A (6) Continuation of 36.112. *Prerequisite:* 36.112 or equivalent. Usually offered every spring.

36.212 Chinese, Intensive Intermediate I /A (6) Further practice in conversation; acquisition of new grammatical structures, vocabulary and characters. Content includes cultural topics related to customs, history, geography, and literature. Usually offered every fall. *Prerequisite:* 36.113 or permission of instructor.

36.213 Chinese, Intensive Intermediate II /A (6) Continuation of 36.212. Usually offered every spring. *Prerequisite:* 36.212 or permission of instructor.

FRENCH: Undergraduate Courses

36.122 French, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of French structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall and summer.

36.123 French, Elementary II /A (3) Continuation of 36.122. Usually offered every spring and summer. *Prerequisite:* 36.122 or equivalent.

36.124 French, Intensive Elementary I /A (5) Usually offered every fall.

36.125 French, Intensive Elementary II /A (5) Usually offered every spring. *Prerequisite:* 36.124 or equivalent.

36.222 French, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on French cultural patterns. Usually offered every fall. *Prerequisite:* 36.123 or equivalent.

36.223 French, Intermediate II /A (3) Continuation of 36.222. Usually offered every spring. *Prerequisite:* 36.222 or equivalent.

36.224 French, Intensive Intermediate I /A (6) Usually offered every fall. *Prerequisite:* 36.125 or equivalent.

36.225 French, Intensive Intermediate II /A (6) Usually offered every spring and summer. *Prerequisite:* 36.224 or equivalent.

37.322 French Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Vocabulary expansion through a variety of classroom activities. Study of idioms, clichés, and style as used in spoken and written French. Designed for students who have studied French in the nonintensive track and who wish to continue to develop their practical skills in French. Usually offered every fall. *Prerequisite:* 36.223 or equivalent.

37.323 French Conversation and Composition II /A (3) Continuation of 37.322. Usually offered every spring. *Prerequisite:* 37.322 or equivalent.

37.324 French Intensive Conversation and Composition I /A (6) Usually offered every fall. *Prerequisite:* two years of college French or equivalent.

37.325 French Intensive Conversation and Composition II /A (6) Usually offered every spring. *Prerequisite:* 37.324 or equivalent.

37.326 French Topics (3) Courses taught in French on these topics: political life, the role of women, French

politics, France today, French cinema, and advanced French translation. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.626. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.328 Introduction to French Translation (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.628. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.420 French Usage (3) An introduction to the cultural levels of the French language—colloquial French, standard French, formal French, familiar French—and to the differences between spoken and written French. Also included: study of literary prose, versification, dialects, and aspects of selected technical vocabularies. Designed for students who wish to understand the intricacies of the French language. Usually offered alternate falls. *Prerequisite:* 37.326 and sophomore standing.

37.423 Le Français des Affaires (3) Advanced language course focusing on business expressions and terminology intended to prepare students for the *Certificat Pratique* examination offered by the Paris Chamber of Commerce. Emphasis on written and oral skills. Students learn to comprehend texts related to commercial topics (advertising, agriculture, banking, insurance, etc.) and to write business letters and reports in French. *Prerequisite:* completion of at least one topic under 37.326 French Topics or 37.328 Introduction to French Translation.

37.428 French Civilization I (3) France from the Middle Ages to the French Revolution—a survey of political, social, and economic developments, emphasizing the differences between the *culture des élites* and *culture du peuple*, as seen through primary sources. Usually offered every fall. *Prerequisite:* 37.326 and sophomore standing.

37.429 French Civilization II (3) France in the nineteenth and twentieth centuries. Study of the *nouveau régime*, the effects of the French revolutions on the social classes and their mental structures. Emphasis on the difference between the *culture des élites* and *culture du peuple*. Usually offered every spring. *Prerequisite:* 37.326 and sophomore standing.

37.491 Internship: French (2-3) Supervised work-study program. Usually offered every term. *Prerequisite:* permission of instructor.

FRENCH: Graduate and Advanced Undergraduate Courses

37.521 Le Classicisme Français (3) Study of major literary works of seventeenth century France in light of the socio-cultural system that they reflect. Focus on formal and sociocontextual methods of reading. All works are studied primarily as texts and the art of their construction and expression is closely examined. Lectures provide introductory and supplemental information. Usually offered alternate springs.

37.522 Le Siècle des Lumières (3) Attitudes and ideas of the age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau. Usually offered every spring.

37.523 French Romanticism (3) Development of the romantic movement in early nineteenth century French literature. Analysis of sentiments of romanticists. Offered irregularly.

37.524 French Realism (3) Nineteenth century French literature from the decline of romanticism to the turn of the century. Periods of expression known as realism, naturalism, and symbolism. Offered irregularly.

37.525 Contemporary French Literature (3) Topic changes each semester; emphasis on genre, movement, or major writers. May be repeated for credit; topic must be different. Usually offered every term.

37.526 Les Grands Auteurs Français I (3) Study of major French literary works from the middle ages through the eighteenth century. All works are studied as texts and the art of their construction and expression is closely examined. Attention is paid to the conflict between individual and social forces, the metamorphosis of form and content, and the evolution of language. Usually offered alternate falls.

37.527 Les Grands Auteurs Français II (3) A study of the major French writers of the nineteenth and twentieth centuries. Readings are drawn from representative works of the various authors to show the emergence, development, and transformations of literary form. Special emphasis is placed on literary analysis and critical writing. Usually offered alternate springs.

37.529 Colloquium on France (3) Lectures, reports, and critical discussions on selected topics pertaining to France's current role in international politics. Cultural trends and economic problems. Taught in French. May be repeated for credit in the same term; topic must be different. Usually offered alternate years.

37.626 French Topics (3) Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, and advanced French translation. Meets with 37.326. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.628 Introduction to French Translation (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Meets with 37.328. Usually offered every fall.

37.702 Seminar in French Studies (3) Reports and critical discussion of research papers on French literature. May be repeated for credit; topic must be different. Usually offered every term.

GERMAN: Undergraduate Courses

36.132 German, Elementary I / A (3) Emphasis on audio-lingual skills. Drills on the main features of German structure. Inductive presentation of grammar. Basic vo-

cabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.133 German, Elementary II / A (3) Continuation of 36.132. Usually offered every spring. *Prerequisite:* 36.132 or equivalent.

36.134 German, Intensive Elementary (5) Emphasis on audio-lingual skills and mastering the main features of German structure. Acquisition of basic vocabulary. Inductive presentation of grammar. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and visual tapes). Usually offered every fall.

36.135 German, Intensive Elementary II (5) Continuation of 36.134. Usually offered every spring.

36.136 Intensive German Language Level I (6) Part of the Study Abroad Semester in Vienna, this course provides emphasis on vocabulary acquisition, basic grammatical structure, development of correct pronunciation, intensive exercise of oral skills in situations, and reading basic texts. Usually offered every term.

36.232 German, Intermediate I / A (3) Audio-lingual skills as well as reading and writing. Text material is focused on German cultural patterns. Usually offered every fall. *Prerequisite:* 36.133.

36.233 German, Intermediate II / A (3) Continuation of 36.232. Usually offered every spring. *Prerequisite:* 36.232.

36.236 Intensive German Language Level II (6) Part of the Study Abroad Semester in Vienna, this course provides refinement of basic skills, learning of more complex grammatical structure and syntax, expansion of vocabulary, and intensive practice of conversation and writing in a cultural context. Usually offered every term. *Prerequisite:* 36.136 or 36.133, and 36.134.

37.330 German Grammar Review (3) A systematic review of German grammar, including the use of verbs, comparisons of adjectives and adverbs, prepositions, time expressions, modal auxiliaries, and passive voice. Emphasis on adjective endings that present a special problem to students of German. Usually offered every fall. *Prerequisite:* 36.233 or equivalent.

37.331 Advanced German Grammar Review (3) A systematic review of German grammar, including relative pronouns, relative clauses, conjunctions, special problems of word order, infinitival constructions, extended noun modifiers, and reflexive pronouns and verbs, with special emphasis on subjunctive I and II of regular, mixed regular, and irregular verbs in their respective tenses. Usually offered every spring. *Prerequisite:* 37.330.

37.332 German Conversation and Composition I / A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 37.330 or 37.331 or permission of instructor.

37.333 German Conversation and Composition II / A (3) Continuation of 37.332. Usually offered every spring. *Prerequisite:* 37.332.

37.336 German Topics (3) Courses taught in German on one of these topics: customs and manners, lands and regions, east and west, and survey of arts. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* 37.332 or permission of instructor.

37.338 Introduction to German Translation (3) An introduction to the methods, techniques, and problems involved in translating from German into English. Emphasis on translating general material, with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. *Prerequisite:* 37.333 or permission of instructor.

37.436 Intensive Advanced German (6) Part of the Study Abroad Semester in Vienna, this course provides practice of speaking and writing on an elevated level. Emphasis on the use of German in everyday situations, subject-related discussions, correspondence, and creative writing. Elimination of frequently made mistakes should lead to fluency in German. The course should be a "capstone experience" in studying the German language. Usually offered every term. *Prerequisite:* 36.236 or 37.332.

37.438 German Civilization I (3) A chronological survey of German civilization from its beginning to the present. The course provides information necessary to the understanding of historical developments in politics, economics, fine arts, and intellectual movements. Conducted in German. Usually offered every fall. *Prerequisite:* 37.333 or permission of instructor.

37.439 German Civilization II (3) A continuation of 37.338. Conducted in German. Usually offered every spring. *Prerequisite:* 37.333 or permission of instructor.

37.491 Internship: German (3-6) Supervised work-study program. Usually offered every term. *Prerequisite:* three years of college German or equivalent.

GERMAN: Advanced Undergraduate Courses

37.535 Contemporary German Literature (3) Topic changes each semester; emphasis on the novel, drama, or poetry. May be repeated for credit in the same term; topic must be different. Usually offered every term.

HEBREW

36.116 Hebrew, Elementary Modern I /A (3) Usually offered every fall.

36.117 Hebrew, Elementary Modern II /A (3) Usually offered every spring. *Prerequisite:* 36.116 or equivalent.

36.216 Hebrew, Intermediate Modern I /A (3) Usually offered every fall. *Prerequisite:* 36.117 or equivalent.

36.217 Hebrew, Intermediate Modern II /A (3) Usually offered every spring. *Prerequisite:* 36.216 or equivalent.

HINDI

36.110 Hindi, Elementary I /A (3) Usually offered every fall.

36.111 Hindi, Elementary II /A (3) Usually offered every spring. *Prerequisite:* 36.110 or equivalent.

ITALIAN

36.118 Italian, Elementary I /A (3) Emphasis on mastering structure. Basics of phonology and morphology. Situational approach. Development of good pronunciation and speech patterns. Two and a half hours per week of class instruction supplemented by individual language and laboratory work. Usually offered every fall and summer.

36.119 Italian, Elementary II /A (3) Continuation of 36.118. Usually offered every spring and summer.

36.218 Italian, Intermediate I /A (3) Refinement of basic language skills. Expansion of vocabulary in a cultural context. Development of communicative skills. Reading and writing as auxiliary skills. Usually offered every fall. *Prerequisite:* 36.119 or equivalent.

36.219 Italian, Intermediate II /A (3) Continuation of 36.218. Usually offered every spring. *Prerequisite:* 36.218 or equivalent.

JAPANESE

36.114 Japanese, Intensive Elementary I /A (6) Understanding and speaking conversational Japanese and reading simple texts. Emphasis on audio-lingual skills in common speech situations. Pronunciation drills, structural pattern drills within the limits of basic vocabulary, and exercises in Japanese writing system. Usually offered every fall.

36.115 Japanese, Intensive Elementary II /A (6) A continuation of 36.114. Usually offered every spring. *Prerequisite:* 36.114 or permission of instructor.

36.214 Japanese, Intensive Intermediate I (6) A continuation of skills development in understanding, speaking, reading, and writing Japanese. Usually offered every fall. *Prerequisite:* 36.115 or equivalent.

36.215 Japanese, Intensive Intermediate II (6) A continuation of 36.214. Skills development in understanding, speaking, reading, and writing Japanese. Usually offered every spring. *Prerequisite:* 36.214 or equivalent.

LANGUAGE AND FOREIGN STUDIES (GENERAL)

36.390 Independent Reading Course in Language and Foreign Studies (1-6)

Advanced Courses

36.490 Independent Study Project in Language and Foreign Studies (1-6)

37.390 Independent Reading Course in Language and Foreign Studies (1-6)

37.392 Cooperative Education Field Experience (3-9)

37.490 Independent Study Project in Language and Foreign Studies (1-6)

Graduate and Advanced Undergraduate Courses

36.590 Independent Reading Course in Language and Foreign Studies (1-6)

37.590 Independent Reading Course in Language and Foreign Studies (1-6)

Graduate Courses

38.690 Independent Study Project in Language and Foreign Studies (1-6)

37.690 Independent Study Project in Language and Foreign Studies (1-6)

37.692 Cooperative Education Field Experience (3-9)
Note Also: Consult the School of Education section of this publication for 21.340 and 21.446, courses that may be taken for credit toward a language major.

37.797 Master's Thesis Seminar (1-6) May be repeated for credit within the same term. Usually offered every term.

38.797 Master's Thesis Seminar (1-6) Usually offered every term.

LATIN

38.108 Latin, Elementary (3) A foundation for the reading and understanding of Latin. This includes studying the phonology of Latin, building vocabulary, studying Latin grammar, and reading and translating Latin texts. Usually offered every fall.

LINGUISTICS: Undergraduate Courses

38.198 Language and Ethnicity (3) An introduction to sociolinguistics. How different groups deal with language, with emphasis on different dialects in the United States: ethnic groups, and social, economic, and intellectual levels. Differences in race—the traditional assumptions about the nature of such differences and their effect on educability. Offered irregularly.

38.199 Introduction to Language (3) This course traces the development of major language groups as a basis for analyzing language-related cultural and political cleavages in contemporary societies. The etymology of political terms and the contextual meaning of foreign words are examined. Problems of international communications are also considered. Offered irregularly.

38.200 Language and Mind (3) This course examines the relationships between language and the mind and theories of first- and second-language acquisition. Theories of second-language acquisition in childhood and by older learners and how they relate to trends in society and education. Offered irregularly.

LINGUISTICS: Graduate and Advanced Undergraduate Courses

38.500 Principles of Linguistics (3) Introduction to scientific study of language with emphasis on current linguistic trends. Foundations for further study in linguistics and methodology of language teaching. Usually offered every term.

38.501 Theory and Practice of ELT I (3) Surveys the more recent methods of foreign language instruction. Description of English consonants, vowels, stress, and intonation. Techniques and materials for teaching listening and speaking skills. Usually offered every fall and summer. *Prerequisite:* 38.500, which may be taken concurrently.

38.502 Theory and Practice of ELT II (3) Description of features of English grammar and of written English discourse. Techniques and materials for teaching grammar and reading and writing skills. Usually offered every spring and summer. *Prerequisite:* 38.500, which may be taken concurrently.

38.521 History of Linguistics and Language Teaching (3) Surveys the history of human attitudes toward language and methods of teaching languages from the time of the ancient Greeks to the present. Usually offered every spring.

38.523 Second-Language Acquisition (3) Theories of second-language acquisition and how they relate to trends in society and in education and related disciplines. Current theory in cognitive and affective domains as it relates to second-language learning. Offered irregularly. *Prerequisite:* 38.500.

38.525 Teaching English for Specific Purposes (3) A survey of the range of subject matter and instructional situations included under "English for specific purposes." Sample instructional materials from several areas are examined in detail. Adaptation of materials and writing of original materials are required. Usually offered every fall. *Prerequisites:* 38.501 or 38.502.

38.527 Sociolinguistics (3) Examines variability and uses of language within various types of speech communities and the correlation with such nonlinguistic factors as the topic of discourse, the identity of the participants, and the setting of the communicative act. Both monolingual and multilingual societies in developed and developing areas will be considered. Usually offered alternate falls. *Prerequisite:* permission of instructor.

38.528 Bilingual Education (3) Language acquisition, use, and competency in a bilingual setting, and the general goal of bilingual education. *Prerequisite:* permission of instructor.

38.552 Linguistic Structure I: Phonetics and Phonemics (3) Techniques of describing speech sounds in terms of articulatory movements and formulas. Practice in hearing and transcribing phonetic sounds using tape recordings. Basic premises of phonemic analysis and practical procedures for arriving at phonemes of a language. Offered irregularly. *Prerequisite:* 38.500.

38.553 Linguistic Structure II: Morphology and Syntax (3) Problems in analysis and description of morphological data. Introduction to transformational generative grammar. Offered irregularly. *Prerequisite:* 38.500.

38.590 Independent Reading Course in English or Linguistics (1-8)

LINGUISTICS: Graduate Courses

38.620 Practicum in Teaching ESL/EFL (3) Observation, participation, and supervised teaching experience in ESL/EFL at a level appropriate to the student's career objectives: elementary, secondary, and post-secondary. Weekly conferences and seminars. Usually offered every spring. *Prerequisite:* 38.501 and 38.502.

38.690 Independent Study Project in English or Linguistics (1-6)

38.700 Seminar in Linguistics (3) Content varies. Reports and critical discussion of theoretical and practical problems in linguistics and TESL/TEFL. Critical evaluation of books and papers on appropriate subjects. May include the preparation of language teaching materials. Must include a research paper or project. May be repeated for credit in the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of the department.

POLISH

36.106 Polish Elementary I (3) Emphasis on communicative competence and spoken Polish to acquire oral skills in selected registers, such as shopping, social meetings, tourism, and everyday conversation. Usually offered every fall.

36.107 Polish Elementary II (3) Continuation of 36.106. Usually offered every spring.

RUSSIAN: Undergraduate Courses

36.142 Russian, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of Russian structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.143 Russian, Elementary II /A (3) Continuation of 36.142. Usually offered every spring. *Prerequisite:* 36.142.

36.144 Russian, Intensive Elementary I /A (5) Emphasis on audio-lingual skills and mastering the main features of Russian structure. Exercises in the Russian writing system, phonology, and reading drills. Acquisition of basic vocabulary. Inductive presentation of grammar. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall.

36.145 Russian, Intensive Elementary II /A (5) Continuation of 36.144. Usually offered every spring. *Prerequisite:* 36.144 or equivalent.

36.242 Russian, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on Russian cultural patterns. Usually offered every fall. *Prerequisite:* 36.143.

36.243 Russian, Intermediate II /A (3) Continuation of 36.242. Usually offered every spring. *Prerequisite:* 36.242 or equivalent.

36.244 Russian, Intensive Intermediate I /A (5) Refinement of basic language skills. Expansion of vocabulary in a cultural context. Review of grammatical structures. Development of communicative skills. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall. *Prerequisite:* 36.145 or equivalent.

36.245 Russian, Intensive Intermediate II /A (5) Continuation of 36.244. Usually offered every spring. *Prerequisite:* 36.244 or equivalent.

37.200 The Soviet Union and the United States /S 3:2 (3) A comparative study of the two superpowers, the Soviet Union and the United States, through an interdisciplinary approach with emphasis on the major similarities and

differences. The course draws topics primarily from international studies, political science, history, literature, and the arts. Taught in English. Usually offered every fall. *Prerequisite for General Education credit:* 33.120 or 53.130. *Note:* not open to students who have taken 00.200/37.240/01.300 Russia and America.

37.341 Russian Political Translation (3) Reading and translating selected Soviet sociopolitical texts and current periodical publications. Vocabulary expansion through study of word formation. Study of idioms, terms, and syntactic patterns. May be repeated for credit in the same term; topic must be different. Usually offered every fall. *Prerequisite:* three years of college Russian or equivalent or permission of instructor.

37.342 Russian Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.243 or equivalent.

37.343 Russian Conversation and Composition II /A (3) Continuation of 37.342. Usually offered every spring. *Prerequisite:* 37.342 or equivalent.

37.347 Introduction to Russian Literature (3) A systematic survey of the historical development of Russian literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* two years of college Russian or equivalent.

37.442 Russian Literary Translation (3) Reading and translation of selected Russian and Soviet literary works. Vocabulary expansion through study of word formation. Study of idioms and syntactic patterns that present translation problems. May be repeated for credit in the same term; topic must be different. Usually offered every spring. *Prerequisite:* three years college Russian or permission of instructor.

37.491 Internship: Russian (2-3) Supervised research and study based on comparison of selected readings and first-hand travel experience. Usually taken in conjunction with group travel to the Soviet Union. *Prerequisite:* permission of instructor.

RUSSIAN: Graduate and Advanced Undergraduate Courses

37.540 Russian Structure (3) Contemporary and historical analysis of the phonology, morphology, and syntax of Russian. Offered irregularly. *Prerequisite:* permission of instructor.

37.543 Russian Classics (3) Topic changes each semester; emphasis on life and works of major writers. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.545 Russian Drama (3) Topic changes each semester; emphasis on a major period or works of one outstanding Russian playwright. May be repeated for credit in the same term; topic must be different. Offered irregularly.

RUSSIAN: Graduate Courses

37.641 Advanced Russian Political Translation (3) Development and perfection of translation skills. Emphasis on contemporary political culture. Translation of materials from current Soviet press: *Pravda*, *Izvestia*, *Trud* and other papers and journals; vocabulary building; review of grammar and stylistics; demonstrations; classroom exercises; weekly home assignments; and weekly quiz. Individual translation project. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall.

37.642 Advanced Russian Literary Translation (3) Reading of selected original Russian and Soviet literary works. Emphasis on accurate literary translation into English. Study of idioms, difficult syntactic constructions, and stylistic levels that a good translator must master. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

37.704 Seminar in Russian Studies (3) Reports and critical discussion of research papers on Russian literature. May be repeated for credit in the same term; topic must be different. Usually offered every term.

SPANISH: Undergraduate Courses

36.152 Spanish, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of Spanish structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall and summer.

36.153 Spanish, Elementary II /A (3) Continuation of 36.152. Usually offered every spring and summer. *Prerequisite*: 36.152.

36.154 Spanish, Intensive Elementary I /A (5) Usually offered every fall.

36.155 Spanish, Intensive Elementary II /A (5) Continuation of 36.154. Usually offered every spring. *Prerequisite*: 36.154 or equivalent.

36.252 Spanish, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on Spanish cultural patterns. Usually offered every fall. *Prerequisite*: 36.153.

36.253 Spanish, Intermediate II /A (3) Continuation of 36.252. Usually offered every spring. *Prerequisite*: 36.252.

36.254 Spanish, Intensive Intermediate I /A (6) Usually offered every fall. *Prerequisite*: 36.155 or equivalent.

36.255 Spanish, Intensive Intermediate II /A (6) Continuation of 36.254. Usually offered every spring. *Prerequisite*: 36.254 or equivalent.

37.210 Latin America: History, Art, Literature /A 3:2 (3) The history of Latin America through the words of the writer, the brush of the painter, the pen of the cartoonist, and the lens of the photographer. The Latin (Spanish, Portuguese, and Islamic), African, and Indian cultural heritages in Latin American history, and how these strands have combined to produce a unique Latin American culture. Taught in English. Usually offered every term. *Prerequisite for General Education credit*: 23.150 or 33.140.

Note: not open to students who have taken 00.200 U.S. in the Western Hemisphere.

37.352 Spanish Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite*: 36.253 or equivalent.

37.353 Spanish Conversation and Composition II /A (3) Continuation of 37.352. Usually every spring. *Prerequisite*: 37.352 or equivalent.

37.354 Spanish Intensive Conversation and Composition I /A (6) Usually offered every fall. *Prerequisite*: two years of college Spanish or equivalent.

37.355 Spanish Intensive Conversation and Composition II /A (6) Usually offered every spring. *Prerequisite*: 37.354 or equivalent.

37.356 Spanish Topics (3) Courses taught in Spanish on these topics: regions of Spain, the social scene in Latin America, customs and manners of Spain, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, and race in Spanish-American literature. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.656. *Prerequisite*: 37.353 or 37.354 or permission of instructor.

37.357 Introduction to Spanish Literature (3) A systematic survey of the historical development of Spanish literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite*: 37.353 or 37.354 or permission of instructor.

37.358 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating Spanish into English. Emphasis is on translating general material, with some consideration of the translation of specialized material. Usually offered every fall. Meets with 37.658. *Prerequisite*: 37.353 or 37.354 or permission of instructor.

37.359 Spanish Translation: International Relations of Latin America (3) Discussion and practice in translating Spanish-language materials dealing with the international relations of Latin America. Review of basic methods, techniques, and problems involved in translating Spanish to English (with some consideration of translating English to Spanish). Meets with 37.659. Usually offered every spring. *Prerequisite*: 37.358 or permission of instructor.

37.380 The Hispanic World 3:2 (3) The development of Hispanic culture in the Old World (Spain); the Latin American New World (the Spanish-speaking nations of the Western Hemisphere); and the United States (including Puerto Ricans, Mexican-Americans, Cuban-Americans and other Hispanics). The course focuses on the development of Hispanic values, customs, and institutions, and the way they have adapted when in contact with other cultures. Taught in Spanish at the third-year level. Usually offered every fall. *Prerequisite*: 37.353 and, for General Education credit, 03.110 or 33.140.

37.450 Spanish Civilization I: Spain (3) A study of the geography, history, arts, and literature of Spain from the

beginning to the present. Usually offered every fall. *Prerequisite*: three years of college Spanish or equivalent.

37.451 Spanish Civilization II: Latin America (3) A study of geography and complex process of the culture and history of the Latin American countries from the origin of the indigenous civilization to the present. Usually offered every spring. *Prerequisite*: three years of college Spanish or equivalent.

37.491 Internship: Spanish: *Projecto Amistad* (2-6) An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Advanced knowledge of Spanish is not required for undergraduate students. Usually offered every term. *Prerequisite*: permission of instructor.

SPANISH: Graduate and Advanced Undergraduate Courses

37.554 Classics of Latin American Literature (3) Topic changes each semester; emphasis on a period of Spanish-American literature and culture from the colonial era to the present. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.559 Colloquium on Latin America (3) Lectures, reports, and critical discussions on peoples and governments of Latin America. Cultural trends, political and economic problems, and international relations. Taught in Spanish. May be repeated for credit in the same term; topic must be different. Usually offered every term.

SPANISH: Graduate Courses

37.656 Spanish Topics (3) Courses taught in Spanish on these topics: regions of Spain, the social scene in Latin America, customs and manners of Spain, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, and race in Spanish-American literature. Meets with 37.356. May be repeated for credit within the same term; topic must be different. Usually offered every fall. *Prerequisite*: two years of college Spanish or equivalent.

37.658 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating from Spanish to English. Emphasis is on translating general material, with some consideration of the translation of specialized material. Meets with 37.358. Usually offered every fall.

37.659 Spanish Translation: International Relations of Latin America (3) Discussion and practice in translating Spanish-language materials dealing with the international relations of Latin America. Review of basic methods, techniques, and problems involved in translating Spanish to English (with some consideration of translating English to Spanish). Meets with 37.359. Usually offered every spring.

37.691 Internship: Spanish: *Projecto Amistad* (2-6) An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international orga-

nizations. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite*: permission of instructor.

37.705 Seminar in Spanish and Latin American Studies (3) Reports and critical discussion of research papers on Spanish and Latin American literature. May be repeated for credit in the same term; topic must be different. Usually offered alternate years.

Computer Science and Information Systems

Computer Science

Undergraduate Courses

40.280 Introduction to Computing /N (4) A general introduction to computing for students who wish to understand how computers work, how computers affect their lives, and how computers are used in students' own disciplines. Basic programming skills are developed by the presentation and use of Pascal. This course does not serve as a prerequisite for 40.281 or other advanced computer science courses. Usually offered every term. *Prerequisite*: 41.150 or three years of high school mathematics.

40.280 Introduction to Computer Science I /N (4) Problem solving and algorithm development. Structured programming in Pascal. Basic data types and canonical structures; arrays and subprograms; recursion. Social implications of computing. Elementary applications from business and science. Usually offered every term. *Prerequisite*: completion of or concurrent registration in 41.170, 41.211, or 41.221.

40.281 Introduction to Computer Science II /N (3) Continuation of problem solving in Pascal. Emphasis on larger programs built from modules. Introduction to abstract data structures: stacks, queues, graphs, and trees and their implementations and associated algorithms. Elementary numerical methods. Usually offered every term. *Prerequisite*: 40.280, and 41.211 or 41.221 (41.211 or 41.221 may be taken concurrently).

40.282 Assembly-Language Programming (4) Basic concepts of computer architecture and organization. Assembly-language programming: instruction formats, addressing techniques, macros, and input/output. Program segmentation and linkage. The assembly process. Usually offered every term. *Prerequisite*: 40.281 or permission of the department.

40.320 Introduction to File Design (3) An examination of the structure of files and of the input/output facilities. Topics include file usage, file design, file organization, media limitations, and data definition statements. The IBM environment is stressed; other environments are discussed as time permits. Usually offered every fall. *Prerequisite*: 40.281 and 40.282.

40.330 Organization of Computer Systems (3) Logical circuit design, integrated circuits and digital functions, data representation, register transfer operations and microprogramming, basic computer organization, the central

40.336 Pascal and Elementary Data Structures (3) Problem solving in Pascal, including string processing, use of pointers, files and recursion. Introduction to stacks, queues, linked lists, binary trees, searching, and sorting algorithms. This is a course for students with the ability to program well in a high-level programming language other than Pascal. Usually offered every fall. *Prerequisite:* 55.235. *Note:* not open to students who have received credit for 40.280 or 40.281.

40.340 Data Structures and Algorithms (3) Basic techniques of design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. Usually offered every term. *Prerequisite:* 40.281 and 40.282.

40.341 Organization of Programming Languages (3) Survey of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as Prolog, Smalltalk, LISP, Ada, etc. Basic elements of compiling and interpreting. At least one non-Pascal-like language (such as LISP) is studied in detail. Usually offered every term. *Prerequisite:* 40.282 and 40.340.

40.345 Software Engineering (3) Presents techniques and tools in software design and development and applies them to the design and implementation of a large software system. Topics include: the software life cycle—requirements, design, implementation, testing and debugging, maintenance and documentation; software reliability, portability, and expandability; and user interface. A team project consists of all different phases of the software life cycle. Usually offered every spring. *Prerequisite:* 40.340 or permission of instructor.

40.350 Introduction to Discrete Structures (3) Introduction to mathematical topics required in computer science, such as graphs, sets and relations, logic, and recurrence. Usually offered every spring. *Prerequisite:* 40.281 and either 41.211 or 41.221.

40.365 Introduction to Operating Systems (3) A survey of the resource-management strategies used in contemporary operating systems. Topics include the management of primary storage, processors, processes, peripheral devices, files, and other common subsystems. Usually offered every spring. *Prerequisite:* 40.330, 40.340, and 42.202.

40.362 Automata, Languages, and Computability (3) Introduction to the theoretical concepts underlying computing. Finite state, push-down, and linear bounded automata. Regular expressions, context-free and context-sensitive grammars. Turing machines and computability, universal machines, computable and non-computable functions, the halting problem. Usually offered every fall. *Prerequisite:* 40.350 and 40.341.

40.390 Independent Reading Course in Computer Science (1-6)

40.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

40.460 Introduction to Numerical Methods (3) Introduction to numerical algorithms fundamental to scientific computation. Includes discussion of error, solution of polynomial equations, and solution of systems of algebraic equations. Usually offered every spring. *Prerequisite:* 40.280 and 41.310.

40.490 Independent Study Project in Computer Science (1-6)

Graduate and Advanced Undergraduate Courses

40.510 Legal Issues in Computing (3) Copyright, patent, contract, tort, antitrust, privacy, and telecommunications issues. Usually offered every fall. *Prerequisite:* some knowledge of computers.

40.520 Algorithms and Data Structures (3) Design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. Usually offered every term. *Prerequisite:* 40.281 and 40.282. *Note:* not open to undergraduate students with credit in 40.340 Data Structures and Algorithms.

40.521 Design and Organization of Programming Languages (3) Study of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as Prolog, Smalltalk, LISP, Ada, etc. At least one non-Pascal-like language (such as LISP) is studied in detail. Elements of compiling and interpreting. Usually offered every term. *Prerequisite:* graduate standing and 40.282. 40.520 is recommended. *Note:* not open to undergraduate students with credit in 40.341.

40.540 Computer System Organization and Programming (3) Investigation of the structure of a modern computing system. Alternative computer organizations are discussed so that students may appreciate the range of possible design choices. Assembly, linking, and loading are presented in detail. The relation between system software and computer organization is discussed. Usually offered every fall. *Prerequisite:* 40.282 and graduate standing. *Note:* not open to undergraduate students with credit in 40.330.

40.541 Computer Architecture (3) Presents the essential notions of computer system design by investigating a wide range of historic, existing, and proposed computer architectures. Topics include meta representation, data representation, instructions and addressing, interpretation and control, memory hierarchies, specialized computers, multiple computers, reliability, and system-design evaluation. Usually offered every spring. *Prerequisite:* 40.540 or 40.330.

40.546 Introduction to Computer Networks (3) An introduction to the basic concepts of computer networks. The architecture of data communication systems, the seven-layer model of a network, and the physical, data link, network, transport, and session layers are explored. Protocol algorithms are considered for the implementation of the various network layers. Usually offered alternate springs. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330), and 42.202.

the various network layers. Usually offered alternate springs. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330), and 42.202.

40.560 Microcomputer Architecture (3) Fundamental concepts of hardware and software systems for microprocessors and micro- and minicomputers. Topics include digital logic, computer arithmetic, input/output, internal and external memory, peripheral device interfaces, and applications. Usually offered every fall. *Prerequisite:* 40.540 or 40.330.

40.565 Operating Systems (3) Historical background. Operating system functions and concepts: processes; processor allocation; memory management; virtual memory; I/O and files; protection; and design and implementation. Several existing operating systems are discussed. A group project to design and implement a small operating system is usually required. Usually offered every spring. *Prerequisite:* 40.520 and 40.540 (or 40.330 and 40.340).

40.566 Introduction to Compilers (3) Design and implementation of compilers. Topics include lexical analysis, syntactic analysis, code generation and optimization, and error recovery. A term project to design and implement a compiler for a small programming language is usually required. Usually offered every spring. *Prerequisite:* 40.521 (or 40.341) and 40.540 (or 40.330).

40.568 Artificial Intelligence (3) Application of computers to tasks usually thought to require human intelligence, such as game playing, problem solving, learning, pattern recognition, natural language understanding, and expert systems. Usually offered every spring. *Prerequisite:* 40.520 (or 40.340) and 40.521 (or 40.341).

40.570 Data Management Systems (3) A survey of the history, principles, design, and applications of database management systems. Topics: basic concepts; storage; the relational, hierarchical, and network approaches; security and integrity; distributed databases; concurrency control. Several existing data-management systems are studied. A project involving design of a small database or part of a small DBMS is usually required. Usually offered every fall. *Prerequisite:* 40.520 (or 40.340) and 40.540 (or 40.330).

40.582 Formal Languages and Automata (3) Chomsky hierarchy of grammars. Finite state acceptors and transducers and regular expressions. Push-down automata and linear bounded automata. Turing machines and the halting problem. The notion of effective computability. Usually offered every fall. *Prerequisite:* 40.521 (or 40.341) and 40.350 or permission of instructor.

40.584 Computer Graphics (3) Overview of display technology: cathode ray tubes (CRTs), digital control of CRTs, other displays, applications, interactive devices, hard copy, and graphics system design. Graphics software: high-level languages for graphics, programming interactive devices, display files, design of graphics systems, transformations in two and three dimensions, gray scales, color, cropping, and hidden lines. Usually offered every spring and summer. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330). 41.310 is recommended.

40.590 Independent Reading Course in Computer Science (1-6)

Graduate Courses

40.620 Design and Analysis of Algorithms (3) Study of algorithms by category, such as divide-and-conquer, dynamic programming, state space search, computational complexity, and NP-complete problems. Analysis of practical techniques. Usually offered every spring. *Prerequisite:* 40.520.

40.630 Expert Systems (3) The course presents techniques and tools for expert-systems design and development. Topics include expert system components, methods for building expert systems, knowledge acquisition, knowledge representation, knowledge processing, and handling uncertainty. Expert system shells (such as Exsys Professional and Level 5) are used for developing working expert systems for different applications. Usually offered every fall and alternate summers. *Prerequisite:* 40.520 and 40.521 or permission of instructor.

40.646 Computer Network Design and Analysis (3) Design and analysis problems relating to computer communications networks. Capacity assignment techniques are applied to different network topologies. Queuing theory is used to allocate limited network resources. Network design algorithms, routing, and flow control techniques are investigated. Usually offered every spring. *Prerequisite:* 40.546 and 41.501 or permission of instructor.

40.690 Independent Study Project in Computer Science (1-6)

40.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

40.700 Seminar in Computer Science (3) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* student must have taken the comprehensive examination.

40.797 Master's Thesis Seminar in Computer Science (1-6)

Mathematics and Statistics

Mathematics

Undergraduate Courses

Note: Courses 41.021, 41.022, and 41.023 are intended for students with inadequate background for other courses in mathematics. Placement testing is available from the department. None of these courses fulfills the mathematics requirements for a degree program nor does any carry credit toward graduation. Credit equivalents are listed only for the purpose of determining full-time student status. All are usually offered every term.

41.022 Basic Algebra (3) An introduction to algebra. Topics include a review of integer and rational numbers; solving linear equations in one or two variables; word problems; polynomials and rational expressions; radicals; the quadratic formula; and some graphing techniques. Usually offered every term. **No academic credit is received for this course.**

41.023 Intermediate Algebra (1) A review of the properties of real numbers, solving linear equations in one and two variables, polynomials and functions, fractional expressions, exponents, powers and roots, quadratic equations, and exponential and logarithmic functions. Usually offered every term. **No academic credit is received for this course.**

41.150 Finite Mathematics (3) Review of algebra, sets, linear equations and inequalities, nonlinear inequalities, interest problems, systems of linear equations, linear programming, functions and graphs, and elementary data analysis. No credit toward mathematics major. Usually offered every term. *Prerequisite:* three years of high school mathematics or equivalent.

41.170 Precalculus Mathematics /N (3) Fundamentals of algebraic, logarithmic, exponential, and trigonometric functions for students planning to take 41.221. 41.150 and 41.170 may not both be used to fulfill the mathematics requirements for any major program. Usually offered every term. *Prerequisite:* three years of high school mathematics or 41.150 or permission of instructor.

41.211 Applied Calculus I /N (4) Continuity, limits, differentiation, and integration. Applications to biological, social, and environmental sciences and business. No credit toward a mathematics, mathematical statistics, or applied mathematics major, but together with 41.212 meets calculus requirement for applied statistics majors. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.150 or permission of instructor.

41.212 Applied Calculus II /N (3) Calculus of several variables, matrices, series, and differential equations. Applications to biological, social, and environmental sciences and business. No credit toward mathematics, mathematical statistics, or applied mathematics major, but together with 41.211 meets requirement for applied statistics or computer science majors. Students may not receive credit toward a degree for 41.212 if they have received credit for 41.222 or 41.223. Usually offered every spring. *Prerequisite:* 41.211 or 41.221.

41.221 Calculus I /N (4) Real numbers; coordinate systems; functions; limits and continuity; differentiation and applications; trigonometric functions; indefinite and definite integration and applications; fundamental theorem of integral calculus. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.170 or four years of high school mathematics.

41.222 Calculus II /N (4) Techniques of integration, calculus of exponential and logarithmic functions, infinite series, power series representations, and analytic geometry. Students may not receive credit for 41.222 if they have taken 41.212. Usually offered every term. *Prerequisite:* 41.221.

41.223 Calculus III (4) Vectors, functions of several variables, partial differentiation, and multiple integrals. Usually offered every term. *Prerequisite:* 41.222.

41.310 Linear Algebra (3) Vector spaces, systems of linear equations, solutions by matrices, determinants, linear transformations, and algebraic forms. Usually offered

every spring and summer. *Prerequisite:* 41.212 or 41.222 or taken concurrently with 41.222.

41.321 Differential Equations (3) First-order equations; linear equations of higher order; solutions in series; separation of variables in partial differential equations and Fourier series; applications to mechanics, electrical circuits, and biology; topics from numerical methods. Usually offered every fall and summer. *Prerequisite:* 41.223, which may be taken concurrently.

41.322 Advanced Calculus (3) A rigorous development of one and several variable calculus. Topics include: mathematical induction, structure of the real numbers, theory of continuity, differentiability, Riemann integration, uniform convergence, the implicit and inverse function theorems, Jacobian and Hessian matrices, and the theorems of Green, Gauss, and Stokes. Usually offered every spring. *Prerequisite:* 41.223.

41.390 Independent Reading Course in Mathematics (1-6)

41.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

41.490 Independent Study Project in Mathematics (1-6)

Graduate and Advanced Undergraduate Courses

41.501 Probability (3) Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal, and other distributions; and applications. Usually offered every spring. Not open for credit to graduate students in mathematics or statistics. *Prerequisite:* 41.212 or 41.222.

41.508 Theory of Interest (3) The mathematical techniques of use in analyzing financial transactions involving interest, measurement of interest, annuities, amortization and sinking funds, bonds, and other securities. Usually offered every spring. *Prerequisite:* 41.223.

51.510 Geometry (3) Euclidean and non-Euclidean (spherical, elliptic and hyperbolic) geometries from axiomatic and analytic points of view. Topics include: isometries, transformation groups, symmetry groups, quadratic forms, projective geometry, as well as some historical background. Usually offered alternate falls. *Prerequisite:* 41.310 or equivalent.

41.512, 41.513 Introduction to Modern Algebra I, II (3), (3) Groups, rings, vector spaces and modules, fields, and Galois theory. 41.512 usually offered every fall; 41.513 usually offered every spring. *Prerequisite:* 41.310 or permission of instructor.

41.515 Number Theory (3) Divisibility, fundamental theorem of arithmetic, congruences, arithmetic functions, Diophantine equations, quadratic residues, sums of squares, and partitions. Usually offered odd year falls. *Prerequisite:* 41.222.

41.520, 41.521 Introduction to Analysis I, II (3), (3) Analysis in Euclidean and metric spaces, point sets, completeness, convergence, continuity, differentiability, and integration. 41.520 usually offered every fall; 41.521 usu-

ally offered every spring. *Prerequisite:* 41.322 or permission of instructor.

41.540 Topology (3) Topological spaces, continuity, compactness, connectedness, and metric spaces. Usually offered even year springs. *Prerequisite:* 41.223 and 41.310.

41.550 Complex Variables for Applications (3) Cauchy's theorem and integral formulas. Residue theorem and contour integration. Conformal mapping. Fourier series, integrals, transforms, and inverse transforms. Laplace transform methods. Usually offered every fall. *Prerequisite:* 41.321 or 41.223.

41.551 Mathematics for Physics (3) Oscillatory systems and normal modes. Eigenvalues and diagonalization of matrices. Wave equation. Vibrating strings and membranes. Orthogonal functions. Heat equation. Laplace's equation. Green's function. Variational methods. Tensors. Usually offered every spring. *Prerequisite:* 41.550.

41.560 Numerical Analysis: Basic Problems (3) Computer arithmetic and error analysis in computation, matrix decomposition methods in solving systems of linear equations and linear least squares problems, polynomial approximation and polynomial data fitting, iterative algorithms for solving nonlinear equations, and numerical differentiation and integration. Usually offered every spring. *Prerequisite:* 40.280, 41.310, and 41.322, or permission of instructor.

41.574 Theory of Probability (3) Random variables, distribution functions, generating and characteristic functions, special distributions and statistics, and limit theorems. Usually offered every fall. *Prerequisite:* 41.223 and 41.501 or permission of instructor.

41.580 Topics in Mathematics (3) Topics include the following: foundations/set theory/logic, matrix theory, algebraic topology, measure and integration, functional analysis, ring theory, history of mathematics, modern geometry, and advanced modern linear algebra. May be repeated for credit; topic must be different. Offered irregularly. *Prerequisites* announced for each offering.

41.585 Mathematics Education (3) Curriculum construction and program design, instructional effectiveness, and methods and technology for teaching mathematics. Different approaches for students with a variety of mathematical and cultural backgrounds. Required of all students in mathematics education. Usually offered every fall. *Prerequisite:* 41.223.

41.590 Independent Reading Course in Mathematics (1-6)

Graduate Courses

41.625 Calculus of Variations (3) Extremization of functionals. Euler, Legendre, Weierstrass, and Jacobi necessary conditions. Sufficient conditions for weak and strong extrema. Extremal fields and Hilbert's invariant integral. Isoperimetric problems and inequalities. Direct methods. Usually offered odd year falls. *Prerequisite:* 41.551.

41.630 Measure and Integration (3) Measurability, integration, and convergence theorems. L_p spaces, modes of convergence, differentiation, and introduction to probability. Usually offered odd year falls. *Prerequisite:* 41.521.

41.654 Partial Differential Equations of Mathematical Physics I (3) Second-order hyperbolic equations, characteristics, Cauchy and Goursat problems, Riemann's method, and quasilinear equations. Legendre transformation, wave equation in n -dimensions, spherical means, and Hadamard's method. Usually offered even year falls. *Prerequisite:* 41.524 or 41.551.

41.655 Partial Differential Equations of Mathematical Physics II (3) Second-order elliptic, parabolic, and mixed equations, problems of Dirichlet and Neumann, Green's function, potentials of volume and surface distributions, diffusion phenomena, and Tricomi's equation. Usually offered odd year springs. *Prerequisite:* 41.654.

41.685 Practicum in Mathematics Education (3) Internships in cooperating school systems, colleges, and other organizations involving teaching; strategic planning and implementation. Required of all students in the Ph.D. program in mathematics education. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring.

41.690 Independent Study Project in Mathematics (1-6)

41.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

41.790 Research Seminar in Mathematics Education (3) In-depth exploration of current issues in mathematics education. A research paper and presentation are required. Course required of all students in the Ph.D. program in mathematics education. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring.

41.797 Master's Thesis Seminar in Mathematics (1-6) Usually offered every term.

41.799 Doctoral Dissertation Seminar in Mathematics (1-12) Usually offered every term.

Statistics

Undergraduate Courses

42.202 Basic Statistics /N (4) Classification of data, averages, dispersion, probability, frequency distributions, confidence intervals, tests of significance, nonparametric techniques, simple regression, and correlation. A package of computer programs is used to demonstrate various statistical techniques. Separate sections are available for biology, business, economics, psychology, education, sociology, and government majors. Usually offered every term. *Prerequisite:* 41.150 or permission of department.

42.300 Business and Economic Statistics /N (3) Estimation, inference, multiple regression, and correlation. Elementary decision theory. Usually offered every term. *Prerequisite:* a grade of C or better in 42.202, or permission of department. *Note:* not open for credit to students who have taken 42.302 or 42.514.

42.302 Intermediate Statistics (3) Acquisition and development of statistical methods that are used commonly throughout the social sciences, the physical sciences, and governments for research and for routine planning and

forecasting. Methods include techniques for estimation and inference with qualitative and quantitative data focusing on regression, correlation, analysis of variance and nonparametric statistics. Usually offered every term. *Prerequisite:* a grade of C or better in 42.202, or permission of department. *Note:* not open for credit to students who have taken 42.300 or 42.514.

42.390 Independent Reading Course in Statistics (1-6)

42.392 Cooperative Education Field Experience (3-9)
See description under Cooperative Education in this publication.

42.490 Independent Study Project in Statistics (1-6)

Graduate and Advanced Undergraduate Courses

42.502 Introduction to Mathematical Statistics (3) Probability, probability distributions, sampling, sampling distributions, and introduction to the theory of point estimation and statistical inference, including confidence intervals and hypothesis testing. Not open for credit to graduate students in mathematics or statistics. Usually offered every fall. *Prerequisite:* 41.212 or equivalent and 41.501, or permission of instructor.

42.504, 42.505 Actuarial Mathematics I, II (3), (3) Advanced mathematics of finance and insurance, utility theory, risk theory, survival distributions, life insurance and annuities, valuation theory, pension plans and funding, and related topics. 42.504 usually offered every fall; 42.505 usually offered every spring. *Prerequisite:* 41.223, 40.460, 41.501, 42.502, or permission of department.

42.510, 42.511 Theory of Sampling I, II (3), (3) Mathematical development of basic principles of survey design, including methods for determining expected value, bias, variance, and mean square error; simple random, systematic, stratified, cluster, multistage, and double sampling; unbiased, ratio, regression, and composite estimation; optimum allocation of resources; controlled and other non-simple methods of selection; introduction to measurement error; and comparison of alternative designs. 42.510 usually offered alternate falls; 42.511 usually offered alternate springs. *Prerequisite:* 42.502 or equivalent.

42.514 Statistical Methods (3) Averages, dispersion, probability, sampling, and approach to normality; simple and multiple regression; tests and confidence intervals for means, proportions, differences, and regression coefficients; nonparametric statistics; and analysis of variance. Usually offered every term. *Prerequisite:* 42.202 or equivalent. *Note:* not open for credit to students who have taken 42.300.

42.515 Regression (3) Simple and multiple regression, least squares, curve fitting, graphic techniques, and tests and confidence intervals for regression coefficients. Usually offered every fall and summer. *Prerequisite:* 42.514 or equivalent.

42.516 Design of Experiments (3) Design and analysis of the results of balanced experiments, simple analysis of variance, components of variance, analysis of covariance, and related topics. Usually offered every spring. *Prerequisite:* 42.514 or equivalent.

42.517 Special Topics in Statistical Methodology (3) Alternating topics in statistics treated from an applied viewpoint. Topics include sampling, multivariate techniques, factor analysis, and time series. May be repeated for credit, but not within the same term; topic must be different. Usually offered odd year summers. *Prerequisite:* 42.514 or equivalent.

42.519 Nonparametric Statistics (3) Application of nonparametric techniques in the analysis of social-science data, with emphasis on tests appropriate for data having interval, nominal, and ordinal scales. Usually offered even year falls. *Prerequisite:* 42.514 or permission of instructor.

42.520 Applied Multivariate Analysis (3) Introduction to multivariate analysis emphasizing statistical applications. Topics include matrix theory, multivariate distributions, tests of hypotheses, multivariate analysis of variance, principal components, discriminant analysis, canonical correlation, multivariate regression, and related topics. Usually offered odd year falls. *Prerequisite:* 42.514 or equivalent.

42.521 Analysis of Frequency Data (3) Chi-square tests, contingency tables (2×2 , $r \times c$, and multidimensional), loglinear models, and other special models. Usually offered even year springs. *Prerequisite:* 42.514 or equivalent.

42.522 Time-Series Analysis (3) An introduction to the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Usually offered odd year springs. *Prerequisite:* 42.515 or 42.520 or permission of instructor.

42.523 Factor Analysis (3) Introduction to factor analysis emphasizing applications of factor techniques. Topics include factor analysis models, matrix and geometric concepts, communality, transformations, direct factor solutions, derived factor methods, rotations, and final factor scores. Usually offered even year summers. *Prerequisite:* 42.514 or equivalent.

42.524 Data Analysis (3) An introduction to the topics of exploratory data analysis, including resistant or robust techniques, study of residuals, transformations, graphical displays, and related topics. Usually offered every fall. *Prerequisite:* 42.515 or 42.520 or equivalent.

42.530, 42.531 Mathematical Statistics I, II (3), (3) Distribution and functions of random variables, generating functions, order statistics, point estimation, maximum likelihood, confidence intervals, tests of hypotheses (Neyman-Pearson, likelihood ratio, etc.), linear regression, and analysis of variance. 42.530 usually offered every fall; 42.531 usually offered every spring. *Prerequisite:* 41.223, 42.502 or equivalent, and 41.310.

42.584 Introduction to Stochastic Processes (3) Introduction to random walks, Markov chains and processes, Poisson processes, recurrent events, birth and death processes, and related topics. Usually offered every spring. *Prerequisite:* 41.501 or 42.530 or 41.574.

42.590 Independent Reading Course in Statistics (1-6)

Graduate Courses

42.600 Advanced Mathematical Statistics I (3) Theory of estimation, properties of estimators, large-sample properties and techniques, and applications. Usually offered every fall. *Prerequisite:* 42.531 and 41.574 (may be taken concurrently).

42.601 Advanced Mathematical Statistics II (3) Mathematical foundations of statistical theory. Special topics in mathematical statistics. Usually offered every spring. *Prerequisite:* 42.600.

42.610 Statistical Inference I: Estimation (3) The mathematical foundations of statistical inference are discussed. Topics involving the Theory of Estimation include: minimum risk-, Bayes-, minimax-, and equivariant estimation; decision theory; and large sample behavior. Usually offered alternate falls. *Prerequisite:* 42.600.

42.611 Statistical Inference II: Testing (3) This course continues the work begun in 42.610, presenting the mathematical foundations of statistical inference with regard to hypothesis testing. Topics include uniform most powerful tests, unbiased tests, invariant tests, and confidence sets. Usually offered alternate springs. *Prerequisite:* 42.610.

42.620, 42.621 Multivariate Analysis I, II (3), (3) Multivariate normal distribution, Hotelling's T, Wilks's likelihood ratio criterion, other test statistics, classification problems, principal components, canonical correlation, general multivariate regression and experimental designs, and related topics. 42.620 usually offered alternate falls; 42.621 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.640 Statistical Computing (3) An introduction to numerical analysis, computer science, and statistical theory as they apply to random number generation, the Monte Carlo method, simulations, and other aspects of statistical computing. Usually offered every spring. *Prerequisite:* 40.520, 41.560, and 42.531.

42.670, 42.671 Linear Estimation I, II (3), (3) General linear hypothesis, least-squares estimation, Gauss-Markov theorem, regression, analysis of variance, multiple comparisons, analysis of covariance, factorial designs, randomized blocks, other experimental designs, and effects of departures from assumptions. 42.670 usually offered alternate falls; 42.671 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.690 Independent Study Project in Statistics (1-6)

42.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

42.797 Master's Thesis Seminar in Statistics (1-6)

42.799 Doctoral Dissertation Seminar in Statistics (1-12)

Health and Fitness

Undergraduate Courses

49.100 Beginning Swimming (1) This course is designed for students who are unable to maintain themselves in deep water. Students overcome the fear of the water and learn to feel at ease in aquatic environments while learning basic swimming skills. Usually offered every term.

49.101 Intermediate Swimming (1) Instruction in swimming skills and techniques for students interested in perfecting their swimming strokes, endurance, and associated aquatic skills. Usually offered every term. *Prerequisite:* 49.100 or ability to pass beginner's test.

49.102 Lifesaving/Lifeguard Training (2) Development of safety skills, use of lifesaving equipment, and techniques of swimming rescues. Students meeting American Red Cross requirements earn A.R.C. Life-Saving Certificate. Usually offered every fall. *Prerequisite:* 49.270 or valid First Aid and CPR certification; 49.101 or permission of instructor.

49.110 Bowling (1) Develops basic and intermediate skills. Includes: history, scoring, terminology, and spare conversion. Culminates in league play. Offered irregularly.

49.120 Beginning Martial Arts (1) Introductory course designed for the beginner to develop the basic skills of the martial arts. Physical and mental discipline is stressed, as well as self-defense techniques. Flexibility, balance, endurance, and strength are improved. The course prepares the student to advance to the Tae Kwon Do rank of Yellow Belt. Usually offered every term.

49.121 Intermediate Martial Arts (1) Continuation of the development of the martial arts skills. Additional techniques and forms are presented. The course prepares the student to advance to the Tae Kwon Do rank of the Green Belt. Usually offered every term. *Prerequisite:* 49.120 or permission of instructor.

49.122 Advanced Martial Arts (2) For the dedicated student seeking to further develop the skills and techniques of the martial arts to a more advanced degree. A more rigorous level of training than 49.121 is required. Attainment of belt ranking may vary. Usually offered every spring. *Prerequisite:* 49.121 or permission of the instructor.

49.125 Personal Defense (1) Introduction to the basic principles of self-defense. Emphasis is placed on perfecting the basic skills and techniques in protecting oneself. Physical conditioning, strength, and flexibility are attained, along with the understanding of the legal and psychological aspects involved in personal defense. Usually offered every spring.

49.140 Fencing (1) A general overview of the techniques, strategies, and psychology of foil fencing, with an emphasis on the historic perspectives and traditions from a variety of cultures. There is a dual emphasis between developing physical skills and studying the implementation of tactics in situations in the world of fencing. Usually offered every term.

49.150 Golf (1) The course is designed for the beginning player. Skill work consists of grip, stance, and swing

techniques for putting, short irons, middle irons, and woods. Special emphasis is placed on rules, terminology, and etiquette. Usually offered every term.

49.151 Advanced Golf (2) The course is designed for the player with limited skills and playing experience. The class consists of weekly playing rounds at local courses with the instructor. Students are responsible for clubs, transportation, and green fees. Students receive instruction in advanced skills and techniques. Usually offered every fall. *Prerequisite:* 49.150 or permission of instructor.

49.170 Recreational Activities (1-3) Development of skills, techniques, and knowledge of selected individual, dual, and team activities with emphasis on seasonal sports. Content varies. May be repeated for credit in the same term; topic must be different. Offered irregularly.

49.171 Beginning Horseback Riding (1) Designed for the student with little or no previous riding experience. Students learn how to groom and saddle horses. Riding techniques include proper positioning, controlling the horse at a walk, posting, and sitting trot. Taught off campus; no transportation provided. Usually offered every term.

49.172 Intermediate Horseback Riding (1) This course is designed for the rider who already knows how to trot (both posting and sitting). Additional skills are taught including introduction to jumping and cantering. Taught off campus; no transportation provided. Usually offered every term. *Prerequisite:* 49.171 or permission of instructor.

49.173 Advanced Horseback Riding (2) For experienced riders seeking to advance their skills. Students learn more effective horse control through seat and leg aids. Additional skills include: striding, stadium course jumping, cross country jumping, and trail riding. Taught off campus; no transportation provided. Usually offered every term. *Prerequisite:* 49.172 or permission of instructor.

49.180 Beginning Tennis (1) The course is designed for beginners who have had little or no playing experience and no formal instruction. Students learn the following strokes: forehand, backhand, serve, and lob. Usually offered every term.

49.181 Intermediate Tennis (1) The course is for students who can play singles and doubles and execute the basic strokes. Instruction includes basic stroke refinement and development of the lob, overhead, spin, slice serve, and other skills. Additional content in rules, background, techniques, and strategy. Usually offered every term. *Prerequisite:* 49.180 or permission of instructor.

49.182 Advanced Tennis (2) This course is designed to further the skilled player's game in advanced strokes, strategies, and psychological dimensions. Usually offered every fall. *Prerequisite:* 49.181 or permission of instructor.

49.185 Racquetball/Squash (1) This course is designed to develop the fundamental skills, strategies, and techniques of racquetball and squash. Usually offered every term.

49.193 Aquatic Fitness/Water Aerobics (2) The object of this course is to develop cardiorespiratory fitness through aquatic activities. The theoretical applications of

fitness are also included. The course offers an alternative to jogging. Usually offered every term.

49.195 Principles and Techniques of Weight Training

(2) An overview of muscle anatomy, exercise physiology, and biomechanics as they apply to the development of muscle strength. Systems and principles of weight training. Practical experience in strength development through a progressive resistance program. Usually offered every term.

49.197 Aerobic Dance (2) Using aerobic activity to develop and maintain body awareness in five major areas: cardiovascular and muscular endurance, flexibility, muscular strength, and promotion of ideal body composition through activity with music. The goal is the reduction of emotional tension, greater productivity, improved performance, formation of fat-burning enzyme, and a healthier cardiovascular system. Usually offered every term.

49.200 Lifetime Fitness Lecture Series /S (3) The physiological, sociological, and psychological aspects of health promotion are discussed. Emphasis is placed on developing self-responsibility for total well-being. Students participate in skill-building activities and small group discussions. Usually offered every term.

49.209 Growth and Development throughout the Life Cycle (3) This course focuses on the physiological, psychological, and social development of the individual throughout the life cycle. An interdisciplinary approach is used. Usually offered every fall.

49.210 SCUBA (2) The course provides a balanced curriculum in skin and SCUBA diving, providing practical skill development in the pool and a thorough grounding in the physics, physiology, technology, and history of sport diving. Usually offered every term.

49.211 SCUBA Certification Laboratory (1) Includes five open-water dives in salt and fresh water, additional equipment training, and an introduction to boat as well as shore staging for sport diving. Basic rescue techniques are introduced. The laboratory, in conjunction with the standard course, is sufficient to qualify the student as a certified basic diver under the standards of a nationally recognized certifying organization. Usually offered every term. *Prerequisite:* must be taken concurrently with 49.210.

49.220 Basic Rock Climbing (2) Rock climbing is a sport designed to enhance one's appreciation of rock structures and formations in a wilderness environment. This course provides physical conditioning and the skills essential for safety and enjoyment. The course consists of classroom study and rock climbing at various locations. Usually offered every term.

49.230 High-Level Conditioning (2) Development of improved cardiovascular and musculoskeletal fitness through personal fitness programs based on sound theories of conditioning and weight control. This course complements 49.200 and is designed to give students a strong exposure to aerobic and anaerobic exercises as well as nutritional guidelines and aspects of proper weight control. Usually offered every term.

49.240 Nutrition and Modern Food /N (3) Normal nutrition in relation to the needs of individuals and demands

of world population. Current social, ecological, and economic problems are discussed in light of world food needs. Questions about pesticides, food additives, food analogs, and "natural" and "organic" foods are considered. Usually offered every term.

49.250 Strategies in Stress Reduction (3) The nature and causes of stress, its effect on the human body, and both cognitive behavioral approaches as well as relaxation techniques to control it. The course offers a holistic approach to stress management through a combination of lecture and laboratory on skills in relaxation. Methods include: deep breathing, mental imagery, progressive muscular relaxation, muscle massage, art therapy, journal writing, value assessment and clarification, physical exercise, and meditation. Usually offered every term.

49.270 First Aid, CPR, and Medical Emergencies /S (3) Training in basic first aid and CPR (Cardio-Pulmonary Resuscitation). Instruction on treatment of wounds, specific and nonspecific injuries, application of bandages and dressings, splinting fractures and dislocations, emergency rescue techniques, etc. Certification by the American Red Cross in Standard First Aid and Basic Rescuer CPR. Usually offered every term.

49.301 Water Safety (2) Two-part course covering the skills necessary for teaching basic swimming and lifesaving/life guard training. Satisfactory completion leads to an ARC Water Safety Instructor Certification. Usually offered every fall. *Prerequisite:* current advanced lifesaving, CPR, and either swimmer's ARC certification or ability to pass swimmer's test.

49.315 Care and Prevention of Athletic Injuries (4) The basic concepts and techniques in the prevention, treatment, and reconditioning of sports injuries. Use and techniques of taping, strapping, and padding. Includes laboratory. Usually offered every spring. *Prerequisite:* 49.270 or permission of instructor.

49.323 Women's Health /N (3) Designed to provide a better understanding of the female body and increase interest in the maintenance of health. Topics such as reproduction, menstruation, PMS, STDs, and abortion are discussed. Large group discussion is encouraged. Usually offered every term.

49.327 Dealing with Sexual Assault (3) The psycho-social and medico-legal aspects of sexual assault. Topics include: definitions; myths versus facts; preventive measures; motivations and strategies of the assailant; police, medical, and legal procedures; psychological reactions; and counseling techniques for victim and family. Consideration is given to male, female, adult, and child victims. Usually offered every fall.

49.330 Modern Theories of Health and Wellness (3) A health philosophy and psychology course which examines the physical, mental, spiritual, and emotional aspects of total well-being, and to what extent personal and social attitudes influence health behavior. Theories include those of Carl Jung, Victor Frankl, M.S. Peck, Elisabeth Kubler-Ross, Roger von Oech, and others. Usually offered every spring.

49.340 Camping and Backpacking (3) Methods, techniques, and skills related to camping, backpacking, and

hiking. Includes selection of equipment and camp site, orienteering, cooking, and implications for ecology and conservation. Overnight field experience required during course. Offered irregularly.

49.390 Independent Reading Course in Health and Fitness (1-6)

49.425 Physiology of Exercise (3) Includes concepts of energy transformation, metabolism, muscular contraction, oxygen debt, cardiovascular performance, and respiratory function in relation to physical activity and exercise. Usually offered every spring. *Prerequisite:* 49.200 or 49.195.

49.490 Independent Study Project in Health and Fitness (1-6)

Graduate and Advanced Undergraduate Courses

49.590 Independent Reading Course in Health and Fitness (1-6)

Graduate Courses

49.610 Applied Human Physiology and Testing I (3) Theoretical basis for exercise physiology explored in detail. Emphasis is on changes occurring in body systems as a result of exercise and training. Usually offered every fall. *Prerequisite:* 09.330, 09.331, 09.332, 09.333, 49.425 or equivalent, and permission of the director of the Health/Fitness Management Program.

49.615 Applied Human Physiology and Testing II (3) Introduction to methods of physical fitness assessment and evaluation of results. Includes familiarization with treadmill tests, hydrostatic weighing, EKGs, and selected health status appraisal tools and techniques. Usually offered every spring. *Prerequisite:* 49.610 and permission of the director of the Health/Fitness Management Program.

49.616 Strategic Planning in Health Promotion (3) Provides exposure to the concepts and requirements of planning and developing health promotion programs. Students gain a working knowledge of the analytical tools and strategies used in the development of successful health promotion programs in both the profit and nonprofit sectors. Usually offered every fall.

49.640 Nutrition for Health/Fitness (3) The role of nutrition in maintaining health and physical fitness is studied in relation to the responsibilities and opportunities of the manager of health fitness programs. Current food myths, diets for those in athletic programs, and special needs of overweight and underweight clients are included. Usually offered every spring. *Prerequisite:* permission of the director of the Health/Fitness Management Program.

49.690 Independent Study Project in Health and Fitness (1-6)

49.790 Selected Topics in Health/Fitness Management (3) Survey of current literature on the various topics of physical fitness, coronary risk factors, nutrition, smoking, and other topics related to health and fitness. Includes a survey of various organizations that are resources for health information, and field trips to selected health and fitness programs or organizations. Usually offered every

fall. *Prerequisite:* degree standing in the Health/Fitness Management Program or permission of instructor.

49.791 Research Methodology in Health Fitness (3) Provides students in the Health/Fitness Management program with a comprehensive understanding of the concepts and methodology that are essential for quality research. Usually offered every spring.

49.792 In-Service Training in Health/Fitness Management (3) Internships with the Employee Fitness Program, fitness centers, or a health and fitness organization of the student's choice. May emphasize managerial, clinical, educational, or promotional aspects of health/fitness management. Usually offered every term. *Prerequisite:* degree standing in the master's program in Health/Fitness Management.

49.797 Master's Thesis Seminar in Health/Fitness Management (3) May be repeated but not in the same term; content may be the same. Usually offered every term.

Audio Technology

Undergraduate Courses

50.201 Fundamentals of Audio Technology /N (3) Anatomy of audio components; generation, transmission, and detection of sound; properties of sound; electricity and magnetism with applications to transducers, preamplifiers, amplifiers, tuners, and tape decks; electromagnetic waves, AM, FM, and PM modulation; and elements of AM and FM tuners. Usually offered every spring. *Prerequisite:* permission of instructor.

50.202 Audio Technology Laboratory (1) Experiments to accompany 50.201 are performed weekly on loudspeaker directivity, amplifier frequency response, amplifier power output, tape recorder frequency response, wow and flutter, and distortion measurements. Usually offered every term. *Prerequisite:* 50.201 taken concurrently; audio technology majors or permission of instructor.

50.230 Acoustics (3) Properties of sound, speech and music, reflection and diffraction. Open-air theatres, sound-absorptive materials and special constructions, and principles of room acoustics and design. Noise control, reduction of air-borne and solid-borne noise, and control of noise in ventilating systems, sound-amplification systems, and auditoriums. Usually offered every fall. *Prerequisite:* 50.201.

50.310 Sound Synthesis I (4) Principles and practice of analog and digital sound synthesis. Topics include: basic recording techniques, effects processing, waveform synthesis methods, event timing, and microprocessor fundamentals. Emphasis on the technology and lexicon of creating electronic music. Includes laboratory component for application of multitrack recording techniques, additive, subtractive, and modulated synthesis with an introduction to MIDI. Usually offered every fall. *Prerequisite:* 50.201, 51.105 (or 51.110).

50.312 Electronics I (3) Fundamentals of basic analog electronic components and circuits. Components examined include: resistors, capacitors, inductors, rectifiers, transformers, triodes, and transistors. Quantities exam-

ined include: voltage, resistance, current, inductance, capacitance, reactance, and impedance. Circuit analysis involves application of Ohm's Law and Kirchhoff's rules. Circuits include: DC, AC, tuned, rectifier, and simple amplifying circuits. Usually offered every fall. *Prerequisites:* 50.201; 51.205 (or 51.210).

50.313 Electronics II (3) Continuation of analog electronics with an introduction to switching circuits and the fundamentals of digital electronics (TTL and diode logic). Components include semiconductor devices, operational amplifiers, ICs, D/A and A/D converters. Circuits include: multiple transistor amplifiers, transistor switching, oscillators, gates, and flip-flops. Usually offered every spring. *Prerequisite:* 50.312.

50.320 Sound Synthesis II (4) Continuation of 50.310. Waveform synthesis algorithms, sequencer programming, time code synchronization, multi-track composition, complex event design, programming, and system architecture. Provides a systems-oriented understanding of integrated technologies and techniques involving analog, digital, hybrid, and computer-based synthesizer composition. Includes laboratory component for application of tape effects, signal processing, analog and digital sequencing, synchronization techniques, sampling, MIDI networks, and intermediate-level synthesizer programming. Usually offered every spring. *Prerequisite:* 50.310, 51.205 (or 51.210), which may be taken concurrently.

50.322 Electronics Laboratory I (2) Experiments to accompany 50.312. Experiments include: DC circuits, resistance, capacitance, inductance, AC circuits, rectifiers, vacuum tubes, transistors, and amplifying circuits. Usually offered every fall. *Prerequisite:* 50.312, which may be taken concurrently.

50.323 Electronics Laboratory II (2) Experiments to accompany 50.313. Experiments include: transistor characteristics, multiple transistor amplifiers, operational amplifiers, oscillators, gates, flip-flops, D/A and A/D conversion, and circuits using ICs. Usually offered every spring. *Prerequisite:* 50.313, which may be taken concurrently.

50.330 Advanced MIDI Applications (3) Provides a sophisticated level of knowledge and hands-on experience incorporating the latest MIDI (Musical Instruments Digital Interface) developments. MIDI is the established international protocol for electronic instruments and computers to communicate with one another. Special topics to be included are: sound editing, creating sound libraries, constructing music systems for performance and/or recording, and synchronization. Usually offered every term. *Prerequisite:* 50.320. *Note:* This course will be offered for the first time in the 1993-94 academic year.

50.340 Electronic Practicum (3) Application of components and circuitry presented in 50.312 and 50.313 with an emphasis on circuit-building techniques. Students become familiar with electronic test equipment and gain experience interpreting block and schematic circuit diagrams. Includes construction of electronic devices, calibration, and troubleshooting techniques. Usually offered every spring. *Prerequisite:* 50.313 or permission of instructor.

50.345 Ensemble Production I (3) Integrates skills and information acquired earlier in music, computer science, and audio-technology courses. Familiarizes students with the creative use of new sound technology such as synthesizers and computers. Hands-on experience in the techniques applied in music composition and/or performance on an elementary level. Usually offered every fall. *Prerequisite:* 50.320, 50.330, and either 67.126 or 67.124. 50.330 may be taken concurrently. *Note:* This course will be offered for the first time in the 1993-94 academic year.

50.350 Ensemble Production II (3) A continuation of 50.345, bringing together the skills and information acquired in prior music, computer science, and audio technology courses. Covers the principles of electronic music composition and analyzes styles of performance. Focuses on actual composition and performances of works created by students either individually or in teams. Usually offered every spring. *Prerequisite:* 50.345. *Note:* This course will be offered for the first time in the 1993-94 academic year.

50.384 T.V. Studio Operations (3) Principles and practice in operation of television studio equipment. Television waveforms and system fundamentals, studio camera chain, video and audio signal distribution, and operation of studio equipment. Laboratory. Offered irregularly. *Prerequisite:* junior standing and permission of instructor.

50.390 Independent Reading Course in Audio Technology (1-6)

50.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

50.410 Sound Studio Techniques and Practice (3) Multitrack recording techniques as applied to professional sound systems. Studio consoles, magnetic tape recording, signal-processing equipment, room acoustics, noise reduction systems, multitrack recorder alignment, and test equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of instructor.

50.420 Advanced Sound-Studio Techniques (3) Studio set-up, microphone placement, acoustic theory, console patchbay theory and practice, signal processing devices, equalizers, and limiters. Students participate in a recording session in which the set-up and the operation are individually assigned and evaluated. Usually offered every spring. *Prerequisite:* 50.410.

50.440 Synthesizer Performance Seminar (3) For students who wish to develop live performance skills. Students learn playing techniques of synthesizers as musical instruments, including specific aspects of sound, articulation, phrasing, and style. Usually offered every fall. *Prerequisite:* 50.350. *Note:* This course will be offered for the first time in the 1993-94 academic year.

50.450 Electronic Composition and Concert Design (3) Builds upon skills developed in 50.350 and 50.440. Explores state-of-the-art technology in music composition and concert production, including multimedia performance. Usually offered every spring. *Prerequisite:* 50.440. *Note:* This course will be offered for the first time in the 1993-94 academic year.

50.490 Independent Study Project in Audio Technology (1-6)

50.491 Internship (1-6)

Graduate and Advanced Undergraduate Courses

50.500 Digital Interfacing (4) Binary and hexadecimal number systems, Boolean algebra, Karnaugh mapping, digital integrated circuits, elements of digital circuit design. Micro-computer architecture, the MPU instructions set, addressing modes, the stack, index register, and masks and interrupts. Assembler and machine language. I/O operations, peripheral interface adapters, A/D and D/A conversion, and applications. Laboratory with hands-on microprocessor training included. Usually offered every fall. *Prerequisite:* 50.313 or 51.205 or 51.210 or permission of instructor.

50.501 Microprocessors (4) Review of hexadecimal number system, binary mathematics, and programming. Microcomputer architecture, the MPU instruction set, addressing modes, the stack, index register, masks, and interrupts. Assembler and machine language. I/O operations, fundamentals, keyboards, peripheral interface adapters, A/D conversion, and applications. Hands-on microprocessor training. Usually offered every spring. *Prerequisite:* 50.500, and 40.260 or 40.280.

Physics

Undergraduate Courses

51.100 Physics for the Modern World /N 5:1 (3) The laws and rules that govern nature and the physical universe are beautiful yet mysterious. Physics is the science that tries to find these laws by observation, measurement, and testing of hypothesis. The course traces the development of the scientific method and work that forms the basis for studying mechanics, waves, sound, light, and electricity. Includes laboratory. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement.

51.105 College Physics I /N 5:1 (4) General physics as defined as the study of the properties and interactions of matter and energy using scientific methodology. Provides a two-semester sequence with 51.205 College Physics II. The first semester covers a full range of topics in classical mechanics and in thermodynamics, including lab experiments in mechanics, heat, and sound. This course satisfies premedical requirements. Usually offered every fall. *Prerequisite:* 41.170 or equivalent. *Note:* not open to students who have taken 51.218 College Physics I.

51.110 University Physics I /N 5:1 (4) General physics as defined as the study of the properties and interactions of matter and energy using scientific methodology. Provides a two-semester sequence with 51.210 University Physics II for students who want to use calculus-based mathematical methods in solving physical problems. The first semester covers a full range of topics in classical mechanics and thermodynamics, including lab experiments in mechanics, heat, and sound. Usually offered every fall. *Prerequisite:* 41.221 or concurrent registration.

Note: not open to students who have taken 51.220 University Physics I.

51.200 How the Universe Works /N 5:2 (3) Covers the revolutionary ideas which distinguish twentieth century physics from classical physics, building on the foundation given by prerequisite courses. How these ideas influence other fields of intellectual activity. Special and general relativity, quantum physics, theory of chaos, cosmology, atoms, nuclei, quarks. Usually offered every term. *Prerequisite:* completion of College Mathematics Requirement *and, if taken for General Education credit,* 51.105 or 51.100 or 51.110 or 51.110 or 51.100.

51.205 College Physics II /N 5:2 (4) Second semester of general physics, following 51.105. Incorporates the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Includes lab experiments in electricity, magnetism, light, and sound. This course satisfies premedical requirements. Usually offered every spring. *Prerequisite for all students, and for General Education credit:* 51.105. *Note:* not open to students who have taken 51.219 College Physics II.

51.210 University Physics II /N 5:2 (4) Second semester of general physics, following 51.110, for students who want to use calculus-based mathematical methods in solving physical problems. Incorporates the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Includes lab experiments in electricity, magnetism, light, and optics. Usually offered every spring. *Prerequisite:* 41.221, *and, for General Education credit,* 51.110. *Note:* not open to students who have taken 51.221 University Physics II.

51.220 Astronomy /N 5:2 (3) Theories of the formation of the universe, its structure and evolution over time. Stars, planets, and galaxies are born and change over the years; supernovae, neutron stars, pulsars, black holes, quasars, and solar systems are formed. Methods of investigation and exploration of the universe are discussed. Usually offered every term. *Prerequisite:* completion of College Mathematics Requirement *and, if taken for General Education credit,* 51.100 or 51.110 or 51.105 or 51.100 or 51.110. *Note:* not open to students who have taken 51.106 Astronomy.

51.330 Classical Mechanics (3) Vector analysis. Newton's laws and dynamics of particles. Harmonic oscillator. Conservative systems. Gravitational forces and potential. Central fields and the motions of planets and satellites. Relativity. Elements of mathematical physics. Usually offered every fall. *Prerequisite:* 41.223, which may be taken concurrently, or permission of instructor. *Note:* not open to students who have taken 51.502 Classical Mechanics.

51.350 Electricity and Magnetism (3) Electrostatics, potential theory, magnetic fields, Faraday and Ampere's laws, dielectric magnetic media, and Maxwell's equations. Usually offered every spring. *Prerequisite:* 41.223. *Note:* not open to students who have taken 51.503 Electricity and Magnetism.

51.370 Modern Physics (3) Electrons, protons, and structure of matter: a historic view. The Rutherford-Bohr atom and elements of quantum mechanics and their applications to atomic, nuclear, and solid state physics. Usually offered every spring. *Prerequisite:* 51.210, 41.222 or 41.212, or permission of instructor. *Note:* not open to students who have taken 51.501 Modern Physics.

51.390 Independent Reading Course in Physics (1-6)

51.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

51.452 Advanced Laboratory (3) Lectures and laboratory experience. Students plan and complete experiments in electronics and other laboratory techniques that fit their background and previous training. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 50.313 or equivalent and 40.260 or 40.280.

51.490 Independent Study Project in Physics (1-6)

Graduate and Advanced Undergraduate Courses

51.530 Mechanics (3) Newtonian dynamics; Hamilton's principle and Lagrange's equations; central force motion; rigid body dynamics; oscillating motion; Hamilton's equations and phase space; Hamilton-Jacobi equation. Usually offered every fall. *Prerequisite:* 51.330.

51.551 Electromagnetic Waves and Optics (3) Maxwell's equations and electromagnetic waves, reflection and refraction, interaction of light with matter, interference phenomena, and Huygen-Kirchoff diffraction theory. Fresnel and Fraunhofer diffraction, grating, and optical instruments. Offered irregularly. *Prerequisite:* 51.350.

51.565 Basic Concepts in Statistical Physics (3) Statistical description of matter. Distribution functions, phase space, ensembles, statistical interpretation of thermodynamics, effects of quantization, and Maxwell-Boltzman, Fermi-Dirac, and Bose-Einstein statistics. Usually offered alternate springs. *Prerequisite:* 51.350.

51.570 Introduction to Quantum Mechanics (3) Wave mechanics, Schrodinger equation, potential barriers and potential wells, harmonic oscillator, operators, eigenfunctions, eigenvalues, degeneracies, angular momentum, hydrogen atom. Usually offered every fall. *Prerequisite:* 51.370.

51.571 Special Topics in Applied Quantum Mechanics (3) Topics include: atomic and molecular, solid state nuclear, and particle physics. Perturbation theory, magnetic moments, multi-electron atoms, transition rates and selection rules, and collision theory. Crystallography, electrical and magnetic properties of solids. Physics of nuclei and nucleons and their interactions, systematics of stable nuclei, radioactivity, and the fundamental interactions. May be repeated for credit in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 51.570.

51.590 Independent Reading Course in Physics (1-6)

Graduate Courses

51.600 Quantum Electronics I (3) Basic theory concerning the interaction of atomic systems with electromagnetic radiation. Includes review of basic quantum principles; matrix theory of quantum mechanics; review of classical radiating dipole, radiation damping and atomic lifetimes; quantization of radiation; modern interpretation of Einstein A and B coefficients. Usually offered alternate falls. *Prerequisite:* 51.570.

51.601 Quantum Electronics II (3) Optical resonators and laser cavities; three- and four-level laser models; rate equations pulsed and CW lasers; Real laser systems; nonlinear optics and second harmonic generation; index matching coherent optics. Usually offered alternate springs. *Prerequisite:* 51.600.

51.630 Mechanics I (3) Newton's laws of motion. Variational principles and Lagrange's equations. The two-body central force problem. Scattering in a central force field. Kinematics of rigid body motion. The rigid body equations of motion. Methods of solving rigid body problems. Usually offered alternate falls. *Prerequisite:* 51.530.

51.631 Mechanics II (3) Small oscillations. Hamilton equations of motion. Canonical transformations: integral invariants, symmetry principles, and infinitesimal transformations. Liouville's theorem. Hamilton-Jacobi theory and wave mechanics. Lagrange and Hamilton formulations for continuous systems. Usually offered alternate springs. *Prerequisite:* 51.630.

51.650 Electromagnetic Theory I (3) Electrostatics: experimental laws, Gauss's and Green's theorems, and Poisson and Laplace equations. Magnetostatics: Law of Biot and Savart, Ampere's Law, and vector potential. Time-varying fields: Faraday's law, Maxwell's equation, and Poynting's theorem. Radiating systems: Lienard-Wiechert potentials, multipole fields, and wave scattering. Usually offered alternate falls. *Prerequisite:* 51.551.

51.651 Electromagnetic Theory II (3) Einstein's two postulates; Lorentz transformations; Thomas precession; invariance of electric charge and covariance of electrodynamics; relativistic Hamiltonians and Lagrangians; Darwin and Proca Lagrangians; conservation laws and motion in uniform fields; and scattering and absorption of radiation by a bound system. Usually offered alternate springs. *Prerequisite:* 51.650.

51.670 Quantum Mechanics I (3) Experimental background to quantum mechanics. Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional problems, WKB approximations, general principles of wave mechanics, central potentials, hydrogen atom, and scattering. Usually offered every fall. *Prerequisite:* 51.572, which may be taken concurrently.

51.671 Quantum Mechanics II (3) General formalism of quantum theory; angular momentum and spin; identical particles and stationary perturbations; time-dependent perturbation theory, and variational method. Usually offered alternate springs. *Prerequisite:* 51.670.

51.690 Independent Study Project in Physics (1-6)

51.691 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

51.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

51.780 Research Seminar in Physics (3-6) Various topics in advanced physics with contents selected according to need. May be repeated for credit either in the same term with a different topic or in a different term with the same topic. Offered irregularly. *Prerequisite:* permission of instructor.

51.795 Research Training Seminar (1-6) Usually offered every term.

51.797 Master's Thesis Seminar (1-6) Usually offered every term.

51.799 Doctoral Dissertation Seminar (1-6) Usually offered every term.

Government**Undergraduate Courses**

53.105 Individual Freedom vs. Authority /A2:1 (3) The study of major philosophical discussions of the conflict between individual freedom and authority with analysis of the relation between this conflict and the problem of organizing a government. Usually offered every term. *Note:* not open to students who have taken 53.200 Great Issues of Political Thought.

53.110 The Individual and the Polity /S 4:1 (3-4) This course combines a study of major philosophical concepts that shaped government in the United States with an analysis of contemporary political institutions and behavior, focusing on the American governmental system. The course introduces students to theories of governance as well as to a specific governmental system. Four-credit sections include Washington laboratory experiences. Usually offered every term. *Note:* not open to students who have taken 53.120 Introduction to American Politics or 53.100 Introduction to Political Science.

53.120 Introduction to American Politics /S (3-4) Pluralism, constitutional bases of government, political participation and elections, and the major national institutions involved in policy making. Usually offered every term. *Note:* not open to students who have taken 53.100 Introduction to Political Science or 53.110 The Individual and the Polity.

53.130 Comparative Politics /S 3:1 (3) How different societies, both Western and non-Western, have approached the political problems of order and responsiveness. The relationships, in a cross-cultural perspective, between the individual and the state; social and economic processes; culture and behavior. Usually offered every term. *Note:* not open to students who have taken 53.230 Comparative Politics: Change, Leadership, Participation.

53.200 Modern Political Thought (3) Works of major political theorists from the sixteenth to the twentieth century and their application to current questions of theory and method. Included are Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Mills, Hegel, Marx, and others. Usually offered every term.

53.205 Conscience and Authority /S 4:2 (3) The dilemma posed by the conflict between conscience and authority that adheres at every level of society (the family, the classroom, the work place, the civic group, as well as governmental agencies and the military) is examined from a social-science perspective. Usually offered every fall. *Prerequisite for General Education credit:* 54.105 or 57.105. *Note:* not open to students who have taken 53.320 Political Behavior.

53.210 Political Power and American Public Policy /S 4:2 Introduction to political power and how the domestic policy process works; how to evaluate American domestic policy; and the content of several major domestic policies such as energy, environment, health, education, welfare, economic stability, labor, and justice and social order. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 53.110. *Note:* not open to students who have taken 53.323 Government and Public Policy.

53.215 Civil Rights and Liberties /S 4:2 (3) The legal, political, and philosophical status of rights and liberties protected under the Constitution and laws of the United States; how political processes affect the definition of rights. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 73.100, or 54.105. *Note:* not open to students who have taken 53.351 Civil Rights and Liberties.

53.231 Third World Politics /S (3) Political order and change in selected countries in Africa, Latin America, and Asia, emphasizing nation building, ideology, development, and the role of the military. Usually offered every fall and spring.

53.235 Dynamics of Political Change /S 3:2 (3) Theoretical perspectives on political change together with case studies of societies in which the status quo has broken down. Emphasis on the political, cultural, social, and psychological aspects of domestic crisis and revolution, with the objective of increasing awareness and appreciation of other nations and their struggles. Usually offered every term. *Prerequisite for General Education credit:* 53.130 or 29.120, or 33.110. *Note:* not open to students who have taken 53.431 Revolution and Violence.

53.240 Metropolitan Politics /S (3) The growth of cities and metropolitan areas. Evolution of the city and its surrounding areas as a focus of public policy. Analysis of decision-making techniques, intergovernmental relations, and ethnic politics. Implications of financial resources and suburban attitudes on metropolitan politics and policy making. Usually offered every term.

53.245 Introduction to the Study of Law (3) Course acquaints students with the characteristics and the history of the Anglo-American judicial system. Attention is given to theories of law; the substantive categories of law; and the interaction of law, morality, and politics. Usually offered every summer.

53.301 Classical Political Thought (3) An in-depth approach to theory beginning with the pre-Socratics and extending through the Platonic dialogues, Aristotle, Roman civil theory, and major medieval trends of thought. Usually offered every fall.

53.302 American Political Thought (3) Concepts and theories on the nature and operation of American politics and government. Usually offered every spring.

53.310 Introduction to Political Research (3) An introduction to political science research, including the logic of analysis, research design, and the basics of quantitative analysis. Application of gathering data and of analytic and statistical techniques to contemporary political problems. Usually offered every term. *Prerequisite:* one course in political science.

53.315 Elections and Voting Behavior (3) The role of public opinion, interest groups, social movements, and political parties in plural societies. Problems in political participation, communication, representation, and leadership. Usually offered every term.

53.320 The Presidency (3) The role of the presidency in the political system, including presidential power, personality, response to public opinion, interaction with the cabinet and bureaucracy, Congress, and political parties. Usually offered every term.

53.321 Congress and Legislative Behavior (3) Congressional behavior, Congress as an institution, and the role of Congress in policy making. Includes field research on Capitol Hill. Usually offered every term. *Prerequisite:* 53.110 or 53.120.

53.322 American Political Parties (3) Party organization, the party in the electorate and government, party reform, and the future of American parties. Research on parties in Washington. Usually offered every spring. *Prerequisite:* 53.110 or 53.120 or 53.315.

53.330 Politics of Industrial Societies (3) Comparative study of participation, public policy, and policy making in industrial societies. The effects of technology and science on values and social change. Usually offered every term.

53.350 American Constitutional Development (3) The nature of constitutionalism and the role of constitutional interpretation; judicial power and review. Supreme Court decisions and their effect on the development of the American political system. Usually offered every term. *Prerequisite:* 53.110 or 53.120 or 53.302.

53.352 Law and the Political System /S (3) Basic concepts of law and the American legal system. Analysis of the role of courts in the policy-making process. Problems of law enforcement and the correctional system. Usually offered every term.

53.360 Political and Organizational Leadership (3) Examines major theories and research in public leadership, with emphasis on American political and administrative institutions. Case-studies of leaders and leadership in complex public organizations. Relative impact of personality and organizational factors in leadership development. Emphasis on students' awareness of their own leadership style and development potential. Usually offered every spring. *Prerequisites:* junior standing and concurrent registration in 53.361. *Note:* not open for credit to students who have taken 54.445 Leadership in the Public Sector.

53.361 Laboratory in Leadership Development (3) Structured and unstructured exercises designed to increase the student's leadership skills, including awareness

and capability in communication; group dynamics; value clarification; the development of vision; managing emotions in leadership situations; bargaining and negotiation; and the relationship of personal growth to leadership roles and functions. Usually offered every spring. *Prerequisites:* junior standing and concurrent registration in 53.360.

53.390 Independent Reading Course in Government (1-6)

53.391 Internship (1-6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* second-semester sophomore standing.

53.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

53.401 Communism, Fascism, and Democracy (3) The background and major issues of twentieth century political thought; the concept, nature, and functions of ideology; and major contemporary doctrines. Usually offered every fall. *Prerequisite:* a course in history of ideas, philosophy, or theory recommended.

53.410 Washington Semester in American Government and Politics Seminar I (4) Selected students from the university and cooperating institutions study the U.S. government in action through seminars, conferences, lectures, and guided seminar evaluations of experience. The research project is an individual report prepared under the guidance of the academic directors of the program. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.411 and 53.412.

53.411 Washington Semester in American Government and Politics Seminar II (4) See 56.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 53.412.

53.412 Washington Semester in American Government and Politics Research Project (4) See 53.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 53.411.

53.413 Washington Semester Research Project (4) Independent research project prepared under the guidance of the Washington Semester faculty. May be repeated for credit but not within the same term; content must be different. Usually offered every fall and spring. *Prerequisite:* open to Washington Semester students only.

53.416 Washington Semester in American Government and Politics Internship (4) Open only to students in the Washington Semester program, as arranged with their academic directors. Usually offered every fall and spring.

53.423 Advanced Studies in Public Policy (3) Seminars on such topics as hunger, poverty, housing, education, job training, health care, unemployment, welfare, and conservation. May be repeated for credit within the same term; topic must be different. Usually offered every fall and spring. *Prerequisite:* 53.210.

53.425 Government Regulation and Deregulation (3) The impact of federal regulation and deregulation on American life; the complex interactions between the public and private sectors; corporate and consumer lobbying; the effects of trade laws; and antitrust policy. Usually offered every term. Note: not open to students who have taken 53.565 Limits of Government Regulation in Our Daily Lives.

53.430 Authoritarian Regimes: Generals, Presidents, and Kings (3) Politics, theory, and practice of modern totalitarian and authoritarian systems. Communism, fascism, nazism, corporatism, and praetorianism. Usually offered every fall. *Prerequisite:* a course in comparative politics or a relevant history course.

53.432 Political Institutions and Processes in Selected Countries (3) The nature of political institutions and processes of specific countries, such as Great Britain, West Germany, France, the Soviet Union, Israel, Iran, Greece, India, Turkey, and Mexico. May be repeated for credit; topic must be different. Offered irregularly. *Prerequisites:* 53.130 or 53.231 or 53.330 or permission of instructor.

53.434 London Semester (4) Seminar meetings with British public officials and observers of British politics. Topics in British culture include art and architecture of London taught by British instructors and national and urban British politics. Students enroll in several sections of this course. Usually offered every fall.

53.435 London Semester Internship (4) Students work up to twenty hours a week in British institutions under faculty supervision. Usually offered every term.

53.436 Topics in British Culture and Society (4) The ways British society has developed, including similarities and differences with American society. Different topics are introduced each year. Currently, the focus is on London theatre and British media. Taught in London. Usually offered every fall and spring.

53.438 Italian Political Thought since World War II (3) A study of major Italian political institutions, political movements, and leaders. The course consists of classroom lectures and on-site seminars led by current Italian political leaders. Taught in Rome. Usually offered every term.

53.442 Field Study in State Government (3) A study of policy-making in states, focusing on the governors and legislatures. Trips to nearby state capitals. Offered irregularly. *Prerequisite:* 53.110 or 53.120 or 53.240.

53.461 Politics in the Television Age (3) The relationship between television and American politics. Topics include the concept of news; the changing role of television; the politics of newsmaking; the election campaign and the emergence of the political consultant; "tele-diplomacy"; and research tools for analyzing television news. Usually offered every term. *Prerequisite:* an introductory course in American politics.

53.462 Politics of Popular Culture (3) A critical examination of the ways in which language is used to constitute values and the meaning by which power becomes effective in areas such as popular music, television, film, graffiti, comic books, etc. Usually offered every term. *Prerequisite:* an introductory course in American politics.

53.463 Politics and the Cinema (3) Through analysis of the images and symbols inherent in contemporary motion pictures, students are able to consider not only the developed political ideologies, but also the psychological dimensions of political action and inaction. Usually offered every spring. *Prerequisite:* an introductory course in American politics.

53.464 Political Rhetoric (3) Explores the nature of political rhetoric and its history, possibilities, and limitations as well as why and how it is used in the political process and with what effect. Students learn about the skills and resources necessary to produce effective political rhetoric and the mechanics of political argumentation. Usually offered every term. *Prerequisite:* an introductory course in American politics.

53.489 CLEG Seminar (3) Selected topical issues cutting across the disciplines of communication, law, economics, and political science. Primarily for students majoring in the interdisciplinary major in CLEG (Communication, Legal Institutions, Economics, and Government). Examples of issues are communication law and regulation, First Amendment rights and the media, United States trade policy. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring.

53.490 Independent Study Project in Government (1-6)

53.491 Undergraduate Internship (6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar.

53.492 Seminar for Teaching Assistants (3-4) Exclusively for those who serve as teaching assistants in the Washington Laboratory, this course focuses on curriculum planning, group dynamics in classroom and field-trip settings, role differentiation, and evaluation of student performance. Enhances leadership and communication skills. Usually offered every fall. *Prerequisite:* permission of instructor.

53.499 Honors Research in Political Science (3) Usually offered every fall and spring.

Graduate and Advanced Undergraduate Courses

53.500 Marxian Social and Political Thought (3) Marx's contribution to social and political science, economics, and revolutionary theory. Primary texts. Usually offered every fall.

53.501 Contemporary Social Theory (3) A political science perspective on contemporary work in psychology, economics, sociology, and other social sciences. Offered irregularly.

53.502 Politics of the Middle East (3) Politics of the modern Middle East. Deals with legitimacy in crisis in Arab politics, the rise of Jewish nationalism and the politics of Israel, the Arab-Israeli conflict, and international rivalry over the Middle East. Usually offered every fall.

53.520 Advanced Studies in Campaign Management (1-4) Institute and advanced workshops conducted by campaign professionals. The Campaign Management Institute is a two-week intensive course (four credit hours)

offered in January and May on major aspects of political campaigning. Student teams present a simulated campaign plan to a professional panel. Advanced workshops (one credit hour) are offered both fall and spring in areas such as campaign media production and strategy, campaign fundraising, get-out-the-vote, and election analysis. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 53.120.

53.521 Advanced Studies in Elections (3) Seminars on such issues as campaign management, campaign finance, and elections and voting behavior. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* major in the department of government or public administration or graduate standing.

53.522 Studies in Political Behavior (3) Examples are personality and politics, and political socialization. Offered irregularly. *Prerequisite:* six credit hours of relevant course work in political science or a related discipline.

53.524 Congressional Studies (3) Examples are Congress in transition, information sources on the Hill, congressional-executive relations, legislative research skills, and legislative rules and procedures. May be repeated for credit in the same term; topic must be different. Offered irregularly.

53.525 Congress and the Executive (3) Relations between the Congress and the executive branch (president and bureaucracy) with respect to congressional oversight, legislative support of presidential programs, institutional liaison arrangements between Congress and the executive, and reforms in Congress bearing on the changing relationship between the two branches. Usually offered every spring.

53.526 U.S. Intelligence Community (3) This course examines the agencies which make up the intelligence community and activities in which those agencies engage: collection of intelligence, counterintelligence, covert action, and analysis. The sources of conflict between members, direction and management of the community, secrecy and public control, and proposals for reform are also covered. Guest participants from research institutes and government; independent authors. Usually offered every spring.

53.530 Comparative Political Theory (3) A study of political theory in Asia, Africa, Latin America, Arab cultures, and communist nations; emphasis on comparative analysis. Offered irregularly. *Prerequisite:* a course in political theory or comparative politics.

53.532 Political Institutions and Processes in Selected Regions (3) Comparison of political institutions and processes of countries within specific regions such as Central America, Latin America, Western Europe, Eastern Europe, the Middle East, North Africa, Africa, South Asia, or Southeast Asia. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisites:* 53.130 or 53.231 or 53.330 or permission of instructor.

53.533 Community Change in the Third World (3) Issues of community autonomy, national authority, and community decision making. Case studies of selected communities in Third World nations and the role of international agencies in community change. Offered irregularly.

larly. *Prerequisite:* a course in comparative politics or international relations.

53.534 Soviet Union and Nuclear War (3) Focuses on Soviet perceptions of the U.S. threat and Soviet strategic capabilities and nuclear war strategy. Specific topics include: U.S. strategy and force levels, Soviet weapons-acquisitions decision making, strategic forces, C3, civil defense, and nuclear targeting policy. Detailed scenarios concerning how Soviets might choose to fight a nuclear war are examined. Usually offered alternate falls.

53.540 Political Parties, Interest Groups, and Lobbying (3) The roles, functions, and changing nature of political parties and interest groups in American politics, the impact of political party reforms on the parties, and the ways in which parties and interest groups shape public policy. Usually offered every spring.

53.541 The Politics of Mass Communication (3) Effects of mass communication on all levels of political life in modern societies; including socialization, participation, information, and opinion. Analysis of the relationship between mass communication and politics within a comparative context, i.e., societies with differing media structures (predominantly commercial, public, or state systems). Usually offered every spring.

53.550 The Cuban Revolution (3) An examination of the social, economic, and political roots of the Cuban revolution of 1959 and the changes brought about in Cuban politics and society as a result of the revolution. Usually offered every fall.

53.560 Intergovernmental Relations (3) The political, fiscal, and administrative relationships which help to shape the complex intergovernmental system. Federal, state, local, and other jurisdictions are examined concerning their effect on intergovernmental systems. Usually offered every fall and spring. *Prerequisite:* 53.120 for undergraduates.

53.590 Independent Reading Course in Government and Political Science (1-6)

Graduate Courses

53.600 Modern Political Theory (3) Political science as systematic inquiry. Works of political theorists from Machiavelli to the twentieth century; applications to current questions of theory and method. Usually offered every spring.

53.602 American Political Thought (3) Concepts and theories on the nature and operation of American politics and government. Offered irregularly.

53.610 Introduction to Quantitative Methods in Political Science (3) Application of techniques of bivariate analysis to measurement of political behavior; emphasis on techniques relevant for political scientists and students of public administration. Usually offered every fall.

53.611 Political Research (3) Analysis and investigation of political and social problems. Emphasis on theory construction as a guide to research formulation, methods of research, and empirical testing of research questions. Usually offered every spring. *Prerequisite:* 53.650.

53.612 Conduct of Inquiry I (3) Concepts, approaches, and methodologies of research in political science and public administration; probability, sampling; quantitative data analysis, including hypothesis testing and estimation; qualitative data analysis and measures of association. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program or permission of the Director of doctoral programs.

53.613 Conduct of Inquiry II (3) Continuation of 53.612. The use of bivariate and multivariate analysis in political and administrative research; analysis of organizational decision models. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission of the Director of doctoral programs.

53.614 Research in Political and Administrative Behavior (3) The use of survey research and case studies for the study of political and administrative behavior. Instruction in the use of the computer as an aid in political and administrative research. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission.

53.630 Comparative Politics of Developed Nations (3) An introduction to the study of comparative politics, including methods of analysis and conceptual frameworks relevant to an understanding of the structures and processes of political systems in developed nations. Usually offered every fall.

53.631 Comparative Politics of Developing Nations (3) An introduction to the comparative study of governments and political change in the Third World. Topics include development and underdevelopment, cultural pluralism, political integration, nationalism and other ideologies, and the role of the military. Case studies are included. Usually offered every spring.

53.637 Comparative Politics: Countries (3) Special topics dealing with the Soviet Union, Western Europe, the Middle East, Africa, communist China, Japan, and others. Offered irregularly.

53.650 Political Analysis (3) Methods of scientific analysis, including research formulation, hypothesis generation and testing, quantitative analysis, and computer techniques. Usually offered every fall.

53.651 The Legislative Process (3) The function of the legislative branch in the American governmental system. Emphasis on Congress and comparison with state legislatures. Usually offered every spring.

53.652 The Presidency and the Executive Branch (3) Analysis of presidential roles and of the function of the federal executive branch. Presidential personality, executive-legislative relations, and policy formation. Usually offered every fall.

53.654 Political Behavior (3) An examination of the determinants of voting behavior, such as personality, beliefs and attitudes (including issue opinions and conceptual sophistication), political socialization, small groups and communication. Some attention to institutional and normative considerations. Uses survey research and case studies. Usually offered every fall.

53.656 Voting Behavior, Elections, and Campaigns (3) Political participation and behavior in U.S. primaries and

elections, management of campaigns, mass media, and political organizations.

53.674 Constitutional Law and Politics (3) Involvement of American courts in such issues as legitimacy, conflict resolution, and representation; courts as political actors with respect to federalism; powers and limitations of government; advancement of individual and group interests and rights. Offered irregularly.

53.682 Foundations of Policy Analysis: Metropolitan and National (3) Distributional effects, externalities, and the role of risk and uncertainty in policy analysis. Criteria for choice, normative roles for analysis, and using information and social welfare criteria in making policy decisions. Usually offered every spring.

53.690 Independent Study Project in Government and Political Science (1-6)

53.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

53.710 Seminar in American Politics (3) Analysis of the operation of the presidency and the legislative branch and the impact of interest groups and parties on public policy. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to Ph.D. program or permission.

53.720 Seminar in Policy Analysis (3) Analysis of policy formation and implementation; different theories on the role of government in society; the science of program evaluation. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

53.730 Seminar in Comparative Politics (3) Analysis and critique of major theoretical approaches to the study of comparative politics in developed and developing worlds. Historical and theoretical foundations of the nation-state; political issues that arise from social change; and approaches to determining the relative autonomy of state institutions. Usually offered every fall. *Prerequisite:* open to Ph.D. students only.

53.799 Doctoral Dissertation Seminar in Political Science (1-12) May be repeated for credit; topic must be different. Usually offered every fall and spring.

Public Administration

Undergraduate Courses

54.105 Individuals and Organizations /S 4:1 (3) The impact of organizations on persons who work within them or deal with them. Includes theories and structured in-class experiences focusing on human motivation, group dynamics, communication, roles, norms, and decision making. Secondary emphasis on organization structure, relationships of organizations to their environments, and

the subunits within organizations. Usually offered every fall.

54.260 Administrative Politics /S (3) An introduction to American public administration and the executive branch of government. Emphasis on the politics of administration and on the relationship of the bureaucracy with clientele groups, Congress, the White House, and the public. Usually offered every term.

54.343 Governmental Management (3) An introduction to the theory and practice of managing governmental agencies at the national level. Concentrates on administrative structures and processes. Examines the development of the federal bureaucracy and the potential for change in future directions on administration, hiring, and programs. Usually offered every fall. *Prerequisite:* 53.120.

54.344 Managing State and Local Governments (3) A survey of the theory and practice of managing state and local governments. Includes a review of the background against which structure and administrative changes have been introduced into managing local self-governing jurisdictions. Usually offered every spring. *Prerequisite:* 53.120.

54.345 The Law of Public Administration (3) This is a survey course intended to familiarize the student with the legal concepts and practices that have defined and continue to shape governmental administration. It begins with a perspective on the rule of law in American society and the impact of law on the individual. Usually offered every spring. *Prerequisite:* 53.120.

54.444 Governmental Budgeting (3) An introduction to the financial and economic issues and problems that emerge in administering governmental programs. Approaches and techniques in accounting, budgeting, and financial management. A basic familiarization. Usually offered every spring. *Prerequisite:* 53.120.

Graduate and Advanced Undergraduate Courses

54.590 Independent Reading Course in Public Administration (1-6)

Graduate Courses

54.601 Methods of Problem Solving I (3) The use of analytical techniques to solve problems in policy analysis and public administration. Defining problems, choosing appropriate techniques, and understanding the limits of quantitative approaches. Usually offered every term.

54.602 Methods of Problem Solving II (3) Continuation of 54.601. Students improve their ability to analyze and solve public problems using analytical techniques. Usually offered every term. *Prerequisite:* 54.601.

54.603 Management Science for Public Managers (3) Introduction to quantitative techniques useful to decision-makers in analyzing and solving business and government problems. These techniques include linear programming, forecasting, decision theory, inventory control, queuing theory, and simulation processes. Emphasis on applying theory in solving practical problems. The use of the computer to assist in solving problems is emphasized. Offered irregularly.

54.604 Public Program Evaluation (3) Introduction to the elements of policy and program analysis for public program managers. Normative criteria for program evaluation; systematic strategies for assessing and measuring the effects of program elements and policy changes; and logic and limitations. Usually offered every spring and alternate summers.

54.605 Research Methods for Public Managers (3) Practical applications of scientific research principles and techniques. Analytical and logical methods are followed in characterizing research, selecting and developing a governmental research problem, designing the research strategy, researching documentary sources, and developing the outline. The objective is to develop an infrastructure for the research project and to choose from the methodologies of research most suited for individual students' needs. Offered irregularly. *Prerequisite:* open only to students in selected contract programs.

54.606 Comparative Administrative Systems (3) An examination of governmental administrative systems in Europe, North and South America, Asia, and Africa. The focus is on these institutions as subsystems of national and international economic and political systems. The emphasis is on the comparative analysis of administration in capitalist industrialized nations, socialist nations, and the Third World. Usually offered every spring.

54.609 Studies in Policy Analysis: Governmental Structures (3) Theories and techniques of policy analysis as applied to issues of governmental administrative structure and process, including issues such as size, centralization and decentralization, professionalization and its effects, and reorganization. Usually offered every fall. *Prerequisite:* 54.601 or 53.682.

54.610 Public Management (3) Problems of management in public agencies; the activities of public managers; the different kinds of government agencies, their settings and tasks; the administrative methods used by public managers; and the applicability of these methods under various conditions. Usually offered every term.

54.611 Organization Planning and Control (3) An introduction to planning theory. Efforts at governmental planning in the United States, techniques used to develop and implement organization planning and control systems, and individual and group resistance to planning and the implications of this for public administration. Usually offered every year. *Prerequisite:* 54.610 or equivalent.

54.612 Politics of Administration (3) The external activities of public agencies; their relations with other agencies, legislative bodies, interest groups, citizens, advisory committees, and other levels of government. Administrative ethics and the mechanisms for holding public administrators accountable, e.g., legislative oversight, sunshine and sunset laws, reorganization, and the press. Usually offered every year.

54.613 Administration of International Programs (3) Organizational and administrative problems of program management in an interdependent world. The administration of government programs in developing countries and the management of international organizations. The effects of development programs and the consequences of

alternative management strategies. Usually offered every fall.

54.614 Development Management (3) The problems of administering public programs in developing countries and the methods by which development projects are carried out. For foreign students who will be returning to developing countries as well as for Americans interested in international administration. Usually offered every spring.

54.616 Legal Issues in Public Administration (3) An introduction to legal issues facing public managers. After an introduction to the legal basis of public administration, including the empowerment process, administrative procedures, and judicial review, students focus on legal issues in client relations, administrative ethics, personnel management, and general administration. Usually offered every term.

54.617 Microcomputing Workshop for Public Managers (3) The course provides students with in-depth microcomputer skills that can be readily applied to the modern workplace. The course also explores end-user computing issues from a federal-government perspective. Offered irregularly. *Prerequisite:* 54.618.

54.618 Management Workshop (3) Professional training in management skills such as briefing skills, group and personal interaction, and computer applications. Along with other designated workshops, laboratories, and institutes, the course satisfies the management-skills requirement in the M.P.A. program. May be repeated for credit in the same term; topic must be different. Usually offered every term.

54.619 Personnel Administration and Ethics in Government (3) Managerial discretion, particularly at the federal level, with regard to the personnel management areas of position management, staffing, labor-management relations, performance appraisal, training, recognition, and discipline; and ethics and values, including consideration of conflict of interest, ends and means, deception and various degrees of untruth. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.620 Seminar on Career Development (2) This, the first course in the Key Executive Program, focuses on executive development through the process of career and life planning. Participants examine their values, interests, and past accomplishments and prepare their own career-development plans for the future. Participants also explore career development as an element of personnel management, examining employee participation and motivation, the stages of life and career development, and the management of transitions. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.621 Executive Management (3) Based on the profession of public administration and relevant contributions from the business world, this course provides instruction in the principles of managing programs, projects, and other large-scale organizational activities. Classical and modern approaches to executive management are analyzed in areas including planning, organizing, staffing, program implementation, evaluation, and control. The

different characteristics of government organizations are emphasized, along with the constraints that these create for public executives and the ways they can respond. Usually offered every fall. *Prerequisite*: open only to participants in the Key Executive Program.

54.622 Leadership for Key Executives (3) Focusing on the leadership skills of each member of the class, this course is designed to sharpen the capabilities of key executives to lead and manage other personnel. Key executives examine their own managerial style, methods of communication, techniques of motivation, delegation of work, and approaches to group leadership. Class exercises are used to illustrate research findings from the behavioral sciences. Usually offered every fall. *Prerequisite*: open only to participants in the Key Executive Program.

54.623 Executive Problem Solving (3) In this course key executives study the methods for gathering and analyzing information in ways that lead toward more effective and accurate decisions. Specific techniques for analyzing public policies and evaluating agency performance are examined. During this course each key executive develops a prospectus for analyzing a program or activity within his or her own agency. Usually offered every summer. *Prerequisite*: open only to participants in the Key Executive Program.

54.624 Budgeting and Financial Management (3) The use of the executive budget as a device for management planning and control is the focus of this course on public financial management. Key executives develop their skills in understanding different budgetary systems, the elements of budget review and execution, and various strategies and tactics employed by participants in the budgetary process. Usually offered every spring. *Prerequisite*: open only to participants in the Key Executive Program.

54.625 Analysis and Evaluation Practicum (3) Key executives apply the principles taught in the program to administrative policy issues within their own agencies. Under the guidance of individual faculty advisers, participants conduct their own research, develop a written analysis of their findings, and participate in an oral defense of the methodology, conclusions, and implications of their projects. May be repeated for credit, but not within the same term. Usually offered every term. *Prerequisite*: open only to participants in the Key Executive Program.

54.626 Legal Issues in Public Administration (3) This course deals with the legal basis of government authority and the ways in which legal processes authorize yet limit executive action. Using statute and case law, key executives study the delegation of legislative power, rule-making, administrative appeals, and judicial review. Attention is focused on the legal issues in which key executives are most likely to become involved. Usually offered every fall. *Prerequisite*: open only to participants in the Key Executive Program.

54.627 Politics, Policy-Making, and Public Administration (3) Key executives examine the relationship of the legislative process, congressional oversight, and EOP/OMB review and approval to the administration of government policy. They study response to pressure groups, clientele groups, and the general public. Execu-

tives also address their relationship to political executives, the political basis of government organization, and the difficulties of interagency coordination. Usually offered every spring. *Prerequisite*: open only to participants in the Key Executive Program.

54.628 Executive Skill Modules (1-2) Participation in this program sequence is designed to improve the practical skills that top-level executives use on their jobs. Among the modules available to participants are computer literacy for executives, executive speaking, effective writing, and executive health and fitness. May be repeated for credit within the same term; topic must be different. Usually offered every fall and summer. *Prerequisite*: open only to participants in the Key Executive Program.

54.629 Symposium on Executive Management (2) This course focuses on the integration of the public executive role with the work of the organization from the macro, or institutional, perspective. As the capstone course, it focuses on the perspectives of executive management effectiveness that emerge from the four Key Executive Program study tracks. Usually offered every spring. *Prerequisite*: open only to participants in the Key Executive Program.

54.630 Public Managerial Economics (3) Microeconomic theory as a framework for understanding the problems of public managers. Resource scarcity, consumer behavior, production, cost, economics of efficient management, operation of product markets under competition and monopoly, labor markets, market failure, and public goods. Offered irregularly.

54.631 Financing Government Services (3) The theory and practice of public finance and revenue administration with emphasis on state and local government. Applied tax administration and managing other revenue sources: cash management and investing government funds, risk management, debt management including general obligation revenue bonds, user charges and intergovernmental grants. Usually offered every term. *Prerequisite*: 54.630 or equivalent.

54.632 Governmental Budgeting (3) Why budgeting exists, how it works, and who the main actors are. Decision-making theories; resource allocation strategies; program evaluation methods; quantitative aids; legislative and intergovernmental relations; organization and personnel needs; and economic ramifications of alternative fiscal and spending priorities. Usually offered every term.

54.633 Public Financial Management (3) An introduction to the fundamentals of financial management in government agencies, including the background necessary to understand basic concepts of government accounting, auditing, the budget cycle, budget execution, fund management, and financial statements. Usually offered every term.

54.634 Accounting and Budgeting for Public Managers (3) Premises, principles, and procedures for financial accounting for industry and federal and local government. Accounting for decision making in students' organizations. Emphasis on viewpoints of users, especially operating and budget officials. Discussion of budgeting and auditing functions is integrated into accounting lectures and

illustrations. Current financial-management priorities of government are also discussed. Offered irregularly.

54.635 Public Finance (3) This course develops a theoretical basis and a working knowledge of techniques needed to examine and evaluate public-sector activity. Topics include the role and size of the public sector, budget determination and forecasting, public expenditure evaluation and revenue structure, and intergovernmental relations. The course may include topics in development finance and debt management. Offered irregularly.

54.636 Public Financial Analysis (3) How to analyze the financial health of state and local governments and other public organizations and develop remedies for financial problems. Financial condition is related to expenditure, revenue, and borrowing decisions; the economic base and needs of the community; capital markets; public employees; and the overall economic system. Usually offered every fall. *Prerequisite:* two courses in public financial management.

54.637 Public Managerial Macroeconomics (3) An introduction to macroeconomic theory and applications as a basis for understanding the financial environment of public management. Basic models for short- and long-run forecasting of revenue and expenditures. The business cycle and political theories for explaining fiscal patterns at the federal, state, and local levels. Credit markets, interest rates, and debt management. Offered irregularly. *Prerequisite:* 54.630.

54.640 Leadership for Human Resource Development (3) This course deals with significant theories of leadership and human motivation that have shaped current applications in human resources. Emphasis is on those aspects of humanistic psychology most applicable to individual and group behavior in management. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.641 Methods of Problem Solving for Human Resource Development (3) An introduction to quantitative methods of analysis and problem solving. Students learn about different applications to training and organization development such as assessing training needs, evaluation designs, and survey techniques. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.642 Organization Dynamics for Human Resource Development (3) This course focuses on the structure and dynamics of organizations as complex systems. It also emphasizes the interaction of technology and environment with organizational action. Topics include organizations as dynamic open systems, organizational design and structure, contingency theories of organization, conflict and coordination in organizations, and the relationship of the individual and the organization. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.643 Financial Management for Human Resource Development (3) Financial analysis as a management tool. Emphasis is on budgeting techniques, pricing, fund accounting, and financial statements. Usually offered

every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.646 Consultation Skills for Human Resource Development (3) This course provides students with the opportunity to practice consultation with local clients. Students develop their skills in client contact, contracting, diagnosis, intervention, feedback and follow-up, team building, and the delivery of services to a client, and become clearer about their own consultation style and level of expertise. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.647 Career Development for Human Resource Development (3) The course begins by building a community support system for learning. In the second phase, students work on their personal career development and life planning. In phase three, students are introduced to career development programs in organizations and how they relate to the productivity of individuals. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.648 Training Design and Facilitation for Human Resource Development (3) This course develops training skills and understanding of the basic theories of laboratory education and group dynamics. Each student diagnoses his or her training style and its effectiveness; learns about needs assessment techniques; develops design skills; and tests his or her diagnostic skills. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.649 Studies in Human Resource Management (1-3) Rotating topics, including international human resource development; conflict resolution for human resource development; and building effective work teams for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.650 Leadership for Public Management (3) Students develop the theoretical knowledge, self-awareness, and skills to strengthen their leadership style and capacity. Topics include: theories and models of leadership, motivation, group behavior, power, communication, conflict, and organizational change. Students gain awareness of their interpersonal skills and effectiveness through structured experiences, instruments, and other classroom activities. Usually offered every fall and spring.

54.652 Building Effective Work Teams (3) Strategies and techniques from the behavioral sciences that are used to improve the effectiveness of individuals, teams, and organizations. Data collection and feedback, group process observation, team building, conflict management, and structural interventions are reviewed and practiced along with current applications, trends, and professional issues. Usually offered every fall.

54.653 The Individual and the Organization (3) This course focuses on three major frameworks for understanding productive and dysfunctional behaviors in organizations: the behavioral, B.F. Skinner; the psychoanalytic, Sigmund Freud and Carl Jung; and the humanistic, Carl Rogers. Students have an opportunity to apply these

theories to their own lives and work situations. Usually offered every spring.

54.654 Organization Diagnosis and Intervention (3) The theory, techniques, and skills required to diagnose critical aspects of organization effectiveness. Alternative theories and methods of intervention designed to bring about effective change. Students develop skills by applying theories and models to organization cases. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.655 Consultation Skills for Managers (3) Students apply theories and practices of management and organization consulting. The course emphasizes the processes of entry into the client system, contracting, developing and sustaining a relationship with the client, and bringing a consulting project to completion. Through role-playing, structured experiences, and laboratory work with actual clients, students practice techniques and skills used in consulting work. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.658 Conflict Resolution for Managers (3) This course addresses the dynamics of conflict in organizations at three levels: interpersonal, work group, and inter-group. The origins, manifestation, and evolution of conflict in organizations are examined. Classes intersperse experiential activities with discussions of cases and theory. Participants develop skills, knowledge, strategies, and self-awareness to use in diagnosing and managing conflicts at work. Usually offered every fall. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.661 Administrative Behavior (3) An analysis of the structure and dynamics affecting the operation of large organizations. Organization culture, structure, decision making, environmental factors, life cycles, and change are among the topics examined. Offered irregularly.

54.662 Performance Appraisal and Productivity (3) Performance appraisal is mandated by the Civil Service Reform Act. This course deals with its basic elements, including goal setting, individual and organizational performance measurement, coaching and counseling, and productivity improvement among both unionized and non-unionized employees. Usually offered every fall. *Prerequisite:* 54.610 and 54.650.

54.665 Public Personnel Administration (3) Policies and managerial processes for dealing with governmental personnel, including staffing, personnel development, classification, performance appraisal, equal employment opportunity, and labor-management relations. Usually offered every year.

54.667 Labor Relations in Public Employment (3) Changing relationships between public employers, employees, and organizations of public employees; methods and implications of collective bargaining in the public sector. Usually offered every spring.

54.674 Practicum Research Project (3) The practicum focuses on an organizational problem in human resource development, and uses techniques (qualitative or quantitative or both) in organizational diagnosis, intervention

and change, and evaluation. Students work under the guidance of a faculty mentor. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.675 Organizational Planning and Control for Human Resource Development (3) An introduction to planning theory; an overview of efforts at governmental planning in the United States; an analysis of the techniques used to develop and implement organizational planning and control systems; and an examination of individual and group resistance to planning and the implications of this for public administration. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.676 Politics of Administration for Human Resource Development (3) The political context of administration for human resource professionals. Among the themes and principles explored are processes by which policy is formulated and implemented; political approaches to organizational change; political systems from the point of view of function, structure, and process; and formal and informal influence patterns. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.677 Introduction to Organizational Development for Human Resource Development (3) The practice of organizational development. Students are given an overview of the theory, terminology, and literature of organizational development, learn about various diagnostic and intervention tools, and have the opportunity to plan for the application of what they have learned in their own organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.678 Legal Issues in Public Administration for Human Resource Development (3) EEO and affirmative action, grievance handling, hiring and firing, training, and questions of equity, labor relations, and other issues of likely consultation for organizational management practitioners. This is a study of legal issues associated with the management of public and private sector organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.679 Studies in Human Resource Development (1-3) Rotating topics, including labor relations for human resource development; organizational diagnosis and intervention for human resource development; personnel administration for human resource development; and institute on group and personal interaction for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.681 Principles of Procurement (3) The management of procurement by both the government and private sectors. Includes organizations and procedures; requirements; budgeting; government marketing by the private sector; negotiations; proposal preparation; kinds of contracts; the political environment; special considerations, such as small business and equal opportunity; ethics; and case studies. Usually offered every term.

54.682 Federal Procurement Law (3) The law as applied to government procurement programs. Derivation of federal procurement law from the Constitution, statutes, executive orders, regulation, court decisions, and administrative rulings. Application of law to each step of the federal procurement process. Usually offered every fall.

54.683 Contract Administration (3) The management of government contracts in the post-award phase. The legal basis for contract oversight, quality assurance, reliability and maintainability, production controls, financing, cost controls, value engineering, and contract termination and disputes. Usually offered every spring.

54.684 Seminar in Procurement Policy (3) The development of procurement policy at the highest levels of government. The originators of procurement policy and their interaction with the private sector. Policy implementation, including method, and the influence and roles of participants. The impact of procurement policies and responsibility for policy management changes. Usually offered every fall.

54.685 Materials Management and Purchasing (3) The management of materials and services in a business or government organization. Production and operations; forecasting and market analysis; source selection; procurement and purchasing; physical supply; inventory control; inventory valuation; transportation and physical distribution; and ethics. Usually offered every fall.

54.686 Cost and Price Analysis (3) Cost and price analysis considered from the viewpoint of the government and of the private sector in procurement. Principles governing the determination of allowable, allocable, and reasonable contract costs, both direct and indirect; contractor cost and price considerations; case studies. Usually offered every spring.

54.687 Urban Management (3) Council-manager relationships, work force staffing and development, the budget and community goals, ethical issues, management control, and external and regional effectiveness. Usually offered every fall.

54.688 Major-Systems Acquisition (3) Management and the major-systems acquisition process. Topics include program management; acquisition strategy; A-109; source selection and negotiation; risk analysis; productivity; costing and pricing; changes; multinational considerations; and the management of subcontractors. Usually offered every fall.

54.689 Service Contracting (3) Concentrates on aspects of service contracting that are unique or different from product or systems. Includes Service Contract Act and OMB circular A-76 as guidelines for decisions between government and contract sources for needed services. Usually offered every spring.

54.690 Independent Study Project (1-6)

54.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

54.693 Practicum in Public Management and Policy Studies (3) Designed to give students one-on-one super-

vision and guidance for completing their master's thesis project. Students are individually assigned to a faculty member appointed by the director in accord with their expertise and knowledge in a particular field. Upon completion and presentation of the project report, the faculty adviser submits a final grade for the course. Successful performance in practical financial management projects is an essential ingredient of the program and a major factor in obtaining the degree. Offered irregularly. *Prerequisite:* open only to students in selected contract programs.

54.710 Seminar in Public Administration (3) An analysis of the various factors that contribute to the overall performance of the executive branch of government. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to Ph.D. program or permission of instructor.

54.799 Doctoral Dissertation Seminar in Public Administration (1-12) May be repeated for credit within the same term; topic must be different. Usually offered every term.

Computer Science and Information Systems

Information Systems

Undergraduate Courses

55.101 Information and Systems /S (3) An introduction to the roles of information and systems theory in managerial decision making. The course provides the historical perspective for an appreciation of the information-consciousness of our society. Usually offered every term.

55.210 Introduction to Computer Information Systems (3) This is the first course in the Computer Information Systems major. It is an introduction to the role of the computer in modern organizations, discussing hardware and software, computer application development, data processing and database systems, and the impact of computer information systems on society. Usually offered every term.

55.234 Programming Concepts I (3) Basic concepts of computer programming using COBOL. Development of the algorithmic models used in constructing file edit and report programs. Usually offered every term. *Prerequisite:* 55.210, which may be taken concurrently.

55.235 Programming Concepts II (3) Development of the algorithmic models used in constructing file maintenance programs. Exposure to the advanced COBOL facilities such as the sort utility, report writer, and external modules. Usually offered every term. *Prerequisite:* 55.234.

55.315 Human Factors in Computer Information Systems (3) Examination of human needs in developing, operating, and using information systems. Methods for analyzing the social, organizational, and human aspects

of information systems. Usually offered every spring. *Prerequisite:* 55.210.

55.325 Computer Hardware and Systems Software (3) This course covers the major hardware and software components of computer systems as well as issues related to their use by organizations, such as feasibility analysis and hardware and software selection. Usually offered every spring. *Prerequisite:* 55.210.

55.363 Microcomputer Applications in Computer Information Systems (3) This course surveys microcomputer hardware and software in information system applications. It examines the capabilities and limitations of microcomputers, discusses hardware and software acquisitions, and reviews software used in information systems. Usually offered every spring. *Prerequisite:* 55.210.

55.390 Independent Reading in Computer Information Systems (1-6)

55.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

55.432 Introduction to Simulation and Modeling (3) Design and implementation of simulation models for systems design and analysis. Emphasis on discrete stochastic systems and real-world business and government problems including resource allocation, queuing, inventory control, and industrial production. Overview of principal simulation languages and their applicability to problem solving. Usually offered every spring. *Prerequisite:* 41.211 (or 41.221), 42.202, 55.210, and competence in a high-level programming language.

55.436 Computer Operating Systems Management (3) Fundamentals of operating systems management techniques directed toward optimum use of computer systems resources. Concepts of resource allocation and management (scheduling and dispatching of central processor and memory, and input/output management) and data management. Language processors, utility programs, telecommunications, and other system software that interact with the primary functions of the central system. Usually offered every spring. *Prerequisite:* 55.210 and 55.325.

55.440 Database Management in Computer Information Systems (3) The design, development, and control of databases and applications software based on database. Topics include database models and software, logical and physical database design, applications development, and database administration. Usually offered every fall. *Prerequisite:* 55.235.

55.450 Information Storage and Retrieval (3) Introduction to the application of the computer in handling scientific, technical, and scholarly literature. The role of the modern information center in providing management with relevant and up-to-date information back-up for decision making. Usually offered every fall.

55.455 Introduction to Systems Analysis (3) Traditional analysis, design through the data flow analysis, and system development life cycle approach. Methods for structured analysis and design are covered. Also treated are data structures, definitions, and normalization. Emphasis is on gaining an ability to use the various tools

associated with systems analysis. Usually offered every fall. *Prerequisite:* 55.234.

55.460 Applied Systems Design (3) This course builds on previous courses and allows students to apply the tools studied in 55.455. The class follows the life cycle process to produce specifications for a current system, develop the physical design for a new system, and to the extent possible, implement their system. The use of project teamwork is emphasized. Usually offered every term. *Prerequisite:* 55.455.

55.465 Designing and Writing Computer Documentation (3) Documentation is required at each stage in the system development life cycle from analysis to maintenance and use. This course discusses the appropriate documentation for each stage, provides guidelines for evaluation, and offers practical work into writing of user documentation, including on-line documentation. Usually offered every fall. *Prerequisite:* 55.234 and 23.403.

55.480 Senior Seminar in Computer Information Systems (3) This capstone course encourages the student to explore the interrelationships between the theory and substance of computer information systems as a field of study. Students and faculty present concepts for critical review. A major project is usually required. Usually offered every term. *Prerequisite:* 55.315, 55.440, 55.460 (may be taken concurrently) and senior standing.

55.485 Senior Workshop in Computer Information Systems (3) This is a capstone course in information system development. Students will demonstrate their mastery of the tools and techniques of information system development by participating in the development of a real world information system. Usually offered every term. *Prerequisite:* 55.315, 55.460 and 55.465 and senior standing.

55.490 Independent Study in Computer Information Systems (1-6)

Graduate and Advanced Undergraduate Courses

55.511 Concepts in Systems and Information (3) The major concepts and techniques that comprise the systems perspective; applications of systems concepts and related techniques in organizations. Provides an introduction to the major functional areas within information systems, including information systems planning, the systems development life cycle, and structured techniques and tools. Usually offered every term.

55.515 Human Factors in Information Systems (3) The human aspects of information systems and their development. The effects of human factors in the design and development phases of the systems development life cycle. Usually offered every term. *Prerequisite:* 55.511, which may be taken concurrently.

55.532 Advanced Programming Management (3) A study of software development. Contemporary techniques and philosophies of software design and implementation are examined. Research projects encompass the areas of organizing personnel and stylized techniques of design and implementation. An extensive review of periodical literature is required. Usually offered every fall. *Prerequisite:* competence in a high level programming language.

55.533 Concepts in Computer Communication (3) Computer communications and networking. Basic concepts of communication protocols are examined, from simple protocols to support terminal interfaces through various levels of protocol found in modern networks. Usually offered every spring. *Prerequisite:* 55.210.

55.534 Microcomputer Applications for Managers (3) Capabilities and limitations of microcomputer applications. When, where, and how microcomputers should be used to support modern systems. A comparative analysis of the major architectural features of current microcomputers, including software, hardware, peripheral devices, and environmental support requirements. Usually offered every term. *Prerequisite:* 55.210 or equivalent and competence in one programming language.

55.560 Systems Analysis and Design (3) The methods and processes of systems analysis. Emphasis is placed on analytic tasks relating to systems development, and the organizational and technological context within which these analytical tasks are addressed. Usually offered every term. *Prerequisite:* 55.511 and 55.515 or concurrent registration.

55.590 Independent Reading Course in Information Systems (1-6)

Graduate Courses

55.606 Quantitative Analysis for Information Systems (3) Quantitative tools applied to the solution of problems in applying, managing, and evaluating information technologies, including statistical, operations-research, and modeling techniques. Usually offered every term.

55.635 Workshops in Computer Systems Applications (3) Typical topics are: data base management systems, distributed systems, evaluation and selection of computer systems, privacy and security, and performance evaluation. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 55.511.

55.641 Methods of Operations Research (3) Mathematical techniques of operations research. Linear and nonlinear programming, game theory, and inventory theory. Usually offered every fall. *Prerequisite:* 42.502.

55.647 Project Management (3) An introduction to the technology of project planning and management with emphasis on large-scale projects and programs. Sources of information concerning funding organizations. Planning and scheduling techniques including PERT, Gantt charts, LOB, and DELTA charts. Special management problems associated with scientific and technical projects. Offered irregularly.

55.660 Information Systems Design and Development (3) Methods and processes of systems design and implementation. Focus is on structured methods and tools such as data dictionaries, data structure charts, data structure diagrams, and entity relationship diagrams. Usually offered every term. *Prerequisite:* 55.560.

55.661 Telecommunications and Management Information Systems (3) The relationships of data communications and management information systems. The

current state of the art and probable future developments in data communications systems. Usually offered every term. *Prerequisite:* 55.511.

55.662 Information Systems Management (3) The management issues and problems of planning, developing, installing, operating, and maintaining information systems in organizations. Special focus is placed on the connection of managerial and technical resources in organizations. Attention is paid to political, economic, and organizational factors. Usually offered every spring and summer. *Prerequisite:* 55.560.

55.665 Analysis and Design Workshop (3) An advanced information systems course. Students use structured techniques to analyze and design an information system for a real-world organization. Usually offered every fall and spring. *Prerequisite:* 55.660.

55.690 Independent Study Project in Information Systems (1-6)

55.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

55.760 Information Systems Seminar (3) Research seminar requiring a major research paper relevant to the present issues and challenges of the discipline. Students examine current and emerging technological, organizational, economic, and political issues. Critical reading in the literature of the field is required. Usually offered every fall and spring. *Prerequisite:* 55.660 and 55.662.

55.797 Master's Thesis Seminar (1-6) Usually offered every term. *Prerequisite:* completion of field courses and permission of instructor.

Washington Semester

Undergraduate Courses

56.100 Washington Summer Seminar (2) Three-week residential program for advance college credit for high school juniors and seniors. Field study in one of three major components: American Government in Action, U.S. Foreign Policy, and Justice and Law in America. Daily seminars both on and off campus with political leaders, decision-makers, and full-time American University faculty. Usually offered every summer. *Prerequisite:* permission of the department.

56.110 Media in America (2) A three-week residential program to familiarize highly qualified high school students with the fundamentals of newswriting, types of newspaper stories, newspaper editing, and journalistic ethics. Through a series of writing laboratories and seminars on reporting, newspaper layout and design, editing, and interviewing, students learn effective newspaper writing skills. Seminars are conducted with members of the Washington Press Corps on contemporary professional journalism. In addition, students are introduced to the workings of the federal government and to university life. Usually offered every summer. *Prerequisite:* permission of department.

Graduate and Advanced Undergraduate Courses

56.500 Washington Summer Internship (3) The Washington Summer Internship Program is designed to provide on-the-job training for college students from across the country in their respective fields of interest. Students work four and one-half days each week. The other half day is devoted to seminars with practitioners and small group discussions. Usually offered every summer. *Prerequisite:* junior, senior, or first-year graduate standing.

Psychology

Undergraduate Courses

57.105 Psychology: Understanding Human Behavior /S 4:1 (3) Survey of the social bases of behavior and the individual foundations of group and social behavior. The concepts and methodologies of psychology in such areas as social learning, motivation, personality, sex similarities and differences, and abnormal behavior. The interaction between the individual and social institutions is emphasized. Usually offered every term. *Note:* not open to students who have taken 57.100 Introductory Survey of Psychology or 57.105 Psychology as a Social Science.

57.115 Experimental Foundations of Psychology /N 5:1 (3) Through lectures and computer exercises, students are introduced to the many experimental questions addressed in psychology (e.g., biological bases of behavior, conditioning and learning, perception, drug use and abuse) as well as to the specific methods used in psychological research and the general research approaches used in science. Usually offered every term. *Prerequisite:* completion of College Mathematics Requirement or concurrent registration in a course with 41.150 as a prerequisite. *Note:* not open to students who have taken 01.301 Foundations of Experimental Psychology or 57.100 Introductory Survey of Psychology.

57.200 Behavior Principles /N 5:2 (3) The experimental analysis of behavior (EAOB) systematically relates a behavior's probability to its consequences (reinforcement and punishment). Principles derived from the EAOB are used to explain simple animal learning, stimulus control, behavioral sequences and patterning, verbal and other complex human behavior, and emotion. Issues raised by a behavioral approach to human conduct are discussed. Usually offered every term. *Prerequisite:* completion of College Mathematics Requirement and, if taken for General Education credit, 57.115 or 09.100. *Note:* not open to students who have taken 57.110 Behavior Principles.

57.205 Social Psychology /S 4:2 (3) The processes of social thinking, such as the attribution of causality and the relation of attitudes to behavior; social influence, such as conformity, obedience, and persuasion; and social relations, including aggression, altruism, prejudice, and attraction. Focus on the individual in social settings. Research methods are emphasized. Usually offered every term. *Prerequisite:* for General Education credit, 57.105 or 54.105. *Note:* not open to students who have taken 57.340 Social Psychology.

57.215 Abnormal Psychology and Society /S 4:2 (3) Focuses on behavior labeled as abnormal by society.

Abnormal behavior as a function of the individual's interaction with social institutions (family, school, legal system, mental-health system, etc.). Introduction to the major concepts, theories, and issues of abnormal psychology. Usually offered every term. *Prerequisite:* for General Education credit, 57.105 or 73.100. *Note:* not open to students who have taken 57.350 Abnormal Psychology.

57.220 Perception /N 5:2 (3) An introductory discussion of why things appear as they do. Investigation of our perceptual experiences—their origins, refinements, interpretations, and applications. Discussion of scientific theory and research on the senses. Usually offered every fall. *Prerequisite:* completion of College Mathematics Requirement and, if taken for General Education credit, 09.110 or 51.100 or 51.105 or 51.110 or 57.115. *Note:* not open to students who have taken 57.303 Perception and Judgment.

57.225 Neurobiological Bases of Behavior /N 5:2 (3) Introduction to the biological bases of behavior. Topics include basic neurophysiology (activation of neurons and communication among cells); the basic organization of the nervous system; the role of the brain in receiving stimuli; and the neurobiology of motivated behavior, learning, and behavior disorders. Usually offered every fall. *Prerequisite:* completion of College Mathematics Requirement and, if taken for General Education credit, 57.115 or 09.100 or 09.110. *Note:* not open to students who have taken 57.313 Biological Bases of Behavior.

57.230 Theories of Personality /S 2:2 (3) Students explore and critically compare four major approaches to understanding uniqueness in human behavior, emotion, and thought: holistic, dynamic, learning, and trait/biological. Class debates, exercises, and a paper help students use these theories to understand their own and others' personalities. Usually offered every term. *Prerequisite:* for General Education credit, 53.105 or 29.100. *Note:* not open to students who have taken 57.330 Theories of Personality.

57.240 Drugs and Behavior /N 5:2 (3) This introduction to psychoactive drugs and their effects includes an overview of general physiology, neurochemistry, and pharmacology as well as a survey of the basic physiological, pharmacological, and behavioral effects of drugs. The course focuses on the etiology and consequences of addiction and dependence. Critical evaluation of research methodology in drug assessment is stressed. Usually offered alternate springs. *Prerequisite:* completion of College Mathematics Requirement and, if taken for General Education credit, 57.115 or 09.100 or 15.100. *Note:* not open to students who have taken 01.201 Drugs and Behavior.

57.300 Cognitive Psychology (3) This course provides an overview of cognitive psychology and addresses such topics as attention, pattern recognition, perception, memory, language, and thinking. The so-called higher mental processes are studied through discussion of current empirical research, and through classroom demonstrations and development of pilot projects. Usually offered alternate falls. *Prerequisite:* 57.115 or equivalent or permission of instructor.

57.315 Self-Management (3) Principles of cognitive-behavioral self-control for achievement of personal goals. Self-management research is reviewed in weight loss,

studying, self-esteem, giving up smoking, drug addiction, depression, time management, and enjoying oneself. Students conduct self-modification projects in group settings. Usually offered every spring and summer. *Prerequisite:* 57.105 and 57.215 or 57.230.

57.320 Women and Mental Health (3) This course focuses on women's functioning. Topics include theories of the personality of women, common adjustment problems faced by women, and emotional problems prevalent in women. Usually offered alternate falls.

57.333 Health Psychology (3) An exploration of how psychological theories and techniques can minimize unnecessary morbidity and premature mortality. Behavioral, cognitive, and affective targets for primary and secondary prevention efforts are identified from epidemiological theory and research. Ways in which psychological methods can contribute to provision of outpatient and inpatient medical services. Usually offered every fall. *Prerequisite:* 57.105 or equivalent.

57.350 Child Psychology (3) Introduction to development from infancy through adolescence. Emphasis on theory and research in normal development: genetics, growth, and maturation; sensation and perception; motivation; cognitive and social functioning. Usually offered every term. *Prerequisite:* 57.105 or 57.115.

57.360 The Evolution of Behavior (3) Approaches to the study of animal and human behavior with emphasis on the explanation of these behaviors in light of ecology and evolution. Topics include aggression, language, sex differences, intelligence, development, learning, and instinct. Usually offered every spring. *Prerequisite:* 57.115.

57.370 Learning and Behavior (3) Research and theory in animal learning. Covers classical and instrumental conditioning. Ethology and biological constraints on learning. Usually offered every term. *Prerequisite:* 57.115.

57.390 Independent Reading Course in Psychology (1-6)

57.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

57.400 Human Memory (3) This course explores how human memory works. Both theoretical and empirical work on topics such as sensory memory, short- and long-term remembering, rehearsal, forgetting, different types of memories, and memory tests. The latter part of the course concentrates on issues of current interest. Usually offered every spring. *Prerequisite:* 57.115 and 57.300 or permission of instructor.

57.430 Human Sexual Behavior (3) Basic physiological knowledge, sex education, sexual myths, premarital and marital sexual behavior, homosexuality, pornography, etc. Emphasis on psychological aspects of sex and sexuality. Usually offered every term.

57.450 Psychology of Well-Being (3) An overview of the theory, research, and applications in the psychology of well-being. Core topics include self-esteem, relationships and intimacy, competence and achievement, crisis and loss, and meaning and values in life. Usually offered every spring. *Prerequisite:* 57.105 or 57.115.

57.456 Controversial Issues in Psychology (3) A seminar that considers some of the fundamental ideas in psychology through reading and discussion. Usually offered every spring. *Prerequisite:* permission of instructor.

57.470 Introduction to Clinical Psychology (3) The focus is on two major activities of clinical psychologists: assessment and clinical intervention (psychotherapy and program models). Topics also include the functions, history, training, and ethics of the profession. Usually offered every term. *Prerequisite:* 57.105 or 57.115 and either 57.215 or 57.230.

57.480 Experimental Psychology (4) Data and research methods in core areas of psychology. Review of experimental design. Individual and group experiments. Usually offered every term. *Prerequisite:* 42.202 and 57.105 or 57.115.

57.490 Independent Study Project in Psychology (1-6)

57.491 Internship (1-3) Practical experience in a professional setting in the metropolitan area. For advanced psychology majors. Usually offered every term. *Prerequisite:* permission of instructor.

57.497 Advanced Topics in Psychology (3) Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology. Enrollment is limited. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* junior standing, three psychology courses, and permission of instructor.

57.498 Honors Seminar (1) Students participate in supervised research on a review project. The proposal, analysis, and conclusions of this research will be discussed among other honors students as well as with department faculty. Honors thesis will be presented at Honors conference. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 3.5 GPA in psychology, 3.0 GPA overall, and junior standing.

Graduate and Advanced Undergraduate Courses

57.501 Physiological Psychology (3) Anatomical and physiological substrata of behavior. Usually offered alternate springs. *Prerequisite:* junior standing, two psychology courses, and permission of instructor.

57.502 History and Systems of Psychology (3) Philosophical and scientific background of modern psychology and contemporary problems of theory construction. Usually offered every fall. *Prerequisite:* 57.115 and senior standing.

57.503 Sensation and Perception (3) Sensory and complex perceptual processes are discussed in light of contemporary theories in research. Knowledge of basic statistics is desirable. Usually offered alternate falls. *Prerequisite:* 57.220 or graduate standing.

57.505 Advanced Theories of Personality (3) A critical comparison of how trait, psychodynamic, social-learning, and phenomenological approaches to personality contribute to theory, research, and therapy. Usually offered alter-

nate springs. *Prerequisite:* 57.230 or graduate standing or permission of instructor.

57.513 Neuropsychopharmacology: The Biochemistry of Behavior (3) Following an overview of central nervous system physiology, this class gives a detailed examination of the range of neurotransmitters involved in neural communication and modulation. Each neurotransmitter is described in the context of its biochemistry, distribution, pharmacology, and involvement in both normal and abnormal behavior. Usually offered every fall. *Prerequisite:* 57.105 and 57.115 or permission of instructor.

57.514 Industrial/Organizational Psychology (3) Application of psychological principles to the field of work. Topics include selection, training, evaluation, leadership, motivation, decision making, job attitudes and satisfaction, organizational structure and theory, and human factors. Usually offered every fall. *Prerequisite:* two psychology courses and one statistics course.

57.515 Biopsychology Laboratory Methods (4) Demonstration and practice of commonly used surgical, histological, and electrophysiological methods in biopsychological and neurobiological research. Usually offered alternate springs. *Prerequisite:* permission of instructor.

57.520 The Psychology of Suicide and Life-Threatening Behavior (3) Death, mourning, depression, suicide, and self-destructive behavior are studied from psychological, societal, philosophical, religious, legal, and practical viewpoints. Emphasis is on the theoretical, developmental, and clinical aspects of these phenomena, their influence on survivors, interpersonal supports, and on the effect and prevention of suicidal behavior. Literature and experimental research are required. Usually offered every spring. *Prerequisite:* 57.105 and Junior standing.

57.525 Clinical Research Practica (3-4) Merges clinical and experimental psychology in lectures, readings, discussions, and practicum experience. Students collaborate with other students in designing, implementing, and assessing the effectiveness and cost of therapies or in assessing the outcomes of applied experiments. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 57.210 or 57.215 or 57.230 or 57.307 or 57.480 or graduate standing.

57.530 Conditioning and Learning (3) Seminar for advanced graduate students in psychology. Advanced analysis of operations and principles developed through the systematic study of classical and operant conditioning. Topics are primarily in the area of operant conditioning. Usually offered alternate springs. *Prerequisite:* 57.200 or 57.370 or graduate standing.

57.533 Cognitive Behavior Therapy (3) This seminar examines critically the cognitive revolution in behavior therapy. We review the theoretical basis, clinical procedures, and empirical status of several major forms of cognitive behavior therapy, which share the premise that maladaptive thinking is at the core of psychological distress. Usually offered alternate springs. *Prerequisite:* graduate standing or permission of instructor.

57.535 Behavior Therapy Techniques (3) A survey course that covers the research, theory, and applications of all major behavior therapy techniques. The course

covers such topics as systematic desensitization, assertive training, cognitive-behavior therapy, aversive therapy, use of positive reinforcement, exposure and response prevention, token economies, over-correction, ethical issues. Usually offered alternate falls. *Prerequisite:* for undergraduates, permission of instructor.

57.540 Advanced Social Psychology (3) Psychological factors in human social behavior. Examination of research literature with emphasis on design and methodology. Theoretical problems in social behavior and current trends in experimentation. Usually offered alternate falls. *Prerequisite:* permission of instructor.

57.550 Psychological Research I (3) An in-depth examination of experimental design and methods of conducting research in clinical, social, experimental, and biopsychology. Usually offered every fall. *Prerequisite:* 57.480 or graduate standing.

57.551 Psychopathology: Theory and Research (3) Case-study seminar on psychopathological behavior. Focus on symptoms and syndromes from conflict/stress-defense model. Usually offered every fall. *Prerequisite:* permission of instructor.

57.560 Advanced Child Psychology (3) Current theoretical and research issues in child psychology. Areas of emphasis include socialization, affective development, and cognitive development. Students, from their readings and discussion, critically analyze existing data and formulate questions for further investigation. Usually offered alternate falls. *Prerequisite:* 42.202 and 57.350.

57.570 Behavioral Medicine (3) Acquaints students with psychological theory, research, and practical techniques for maintaining health, preventing dysfunctions, and remediating health problems. Topics include cognitive-behavioral techniques for cardiovascular risk reduction (smoking, obesity, stress, diet), exercise enhancement, time management, adherence to medical regimens, and problems with nervous, respiratory, gastrointestinal, and musculoskeletal systems. Usually offered every fall.

57.575 Human Cognition (3) After a short review of the field in general this course focuses on some specific issues, both theoretical and applied, that are of current interest in areas such as attention, perception, human memory, and thought processes. Usually offered alternate falls. *Prerequisite:* 57.105 and 57.115 and permission of instructor.

57.580 Behavior Therapy Practicum (3) Students are placed at facilities where behavior modification is employed. Intensive work with individual clients. Review of behavior therapy techniques. Weekly seminar and supervision. Usually offered every spring.

57.585 Advanced Human Memory (3) The primary emphasis will be on present day memory research. After briefly reviewing a century of theoretical and empirical work in this area, we will tackle issues of current interest such as different kinds of memory, nonverbal memory, autobiographical memory, and several intriguing phenomena that continue to puzzle psychologists. Usually offered alternate springs. *Prerequisite:* permission of instructor.

57.590 Independent Reading Course in Psychology (1-6)**Graduate Courses**

57.601 Psychological Research II (3) Research practice and preparation of scientific reports. A laboratory-based course which emphasizes the procedures of designing experiments in various areas of psychology: collection, analysis and interpretation of data, and preparation of research reports. Usually offered every spring. *Prerequisite:* 57.480 and permission of instructor.

57.609 Ethics and Professional Practices (3) Theoretical and conceptual questions and social problems in the area of ethics and professional practice. Ethical standards, codes, and legislation of psychologists and related professions, and ethical problems of community mental health are examined. Usually offered every summer.

57.630 Psychotherapy: Theory and Research (3) Non-behavioral approaches to psychotherapy, including psychoanalytic, Rogerian, rational-emotive, Gestalt, and existential. Usually offered alternate falls. *Prerequisite:* permission of instructor.

57.633 Psychological Assessment I (3) Introduces students to basic principles of psychological assessment. Emphasizes conceptual issues much more than practical applications, though substantive psychological research is used to illustrate the concepts. Helps students learn how to critically evaluate, and contribute to, knowledge regarding measurement of psychological functioning. Usually offered every fall. *Prerequisite:* graduate standing.

57.650 Assessment of Intellectual Functions (3) An examination of representative individual tests and their theoretical bases, and laboratory practice in administering, scoring, and interpreting them. Usually offered every fall. *Prerequisite:* 57.633.

57.651 Personality Testing (3) Representative personality tests and projective techniques, with laboratory practice in administering, scoring, and interpreting them. Usually offered every spring. *Prerequisite:* permission of instructor.

57.680 Practicum Training I (3) Practice in skills related to counseling psychotherapy by systematic exposure to critical elements in interviews through supervision and guided observation. Usually offered every fall. *Prerequisite:* permission of instructor.

57.681 Practicum Training II (3) Continuation of Practicum Training I. Usually offered every spring. *Prerequisite:* permission of instructor.

57.682 Practicum Training III (3) Supervision in individual and group psychotherapy from a psychodynamic point of view. Usually offered every fall. *Prerequisite:* permission of instructor.

57.683 Practicum Training IV (3) Continuation of Practicum Training III. Usually offered every spring. *Prerequisite:* permission of instructor.

57.690 Independent Study Project in Psychology (1-6)

57.698 Directed Research (3-6) Consult the department. May be repeated for credit in the same term; topic may be

the same. May not be used in place of 57.796, 57.797, 57.798, or 57.799.

57.791 Clinical Seminar in Psychotherapy I (3) Usually offered every fall. Usually offered every term.

57.792 Clinical Seminar in Psychotherapy II (3) Usually offered every spring.

57.796 Master's Thesis Seminar (3) May not be repeated for credit. Usually offered every term.

57.797 Master's Thesis Research (1-3) May be repeated for credit, but not within the same term; topic may be the same. *Prerequisite:* 57.796.

57.798 Doctoral Dissertation Seminar (3) Usually offered every term.

57.799 Doctoral Dissertation Research (1-9) May be repeated for credit, but not within the same term; topic may be the same. *Prerequisite:* 57.798.

Philosophy and Religion**Philosophy****Undergraduate Courses**

60.100 Introduction to Logic (3) Basic principles of inductive and deductive reasoning. Text and exercises supplemented by readings and discussions in history, philosophy, and applications of logic. Usually offered every term.

60.105 Western Philosophy /A 2:1 (3) A historical introduction to the Western philosophical tradition. Students closely examine classic and contemporary texts on the nature of reality, truth, morality, goodness, and justice; the possibility of knowledge; faith, reason, and the existence of God; and the issue of freedom and determinism. Usually offered every term. *Note:* not open to students who have taken 60.101 Introduction to Philosophy.

60.200 Selected Basic Topics in Philosophy (3) Topics include: great ideas that changed history; moral choices in contemporary society; popular issues in philosophy; philosophy, psychology, and the emotions; and existentialism. May be repeated for credit in the same term; topic must be different. Offered irregularly.

60.210 European Philosophy and the American Experiment /S 2:2 (3) The founding documents of the American nation—the Declaration of Independence and the Constitution—are uniquely philosophical. Students examine the philosophical writings that influenced the authors of these documents, and analyze the documents against this background. Criticisms of the documents and current disputes about their proper role are considered. Usually offered every term. *Prerequisite for General Education credit:* 53.105 or 60.105 or 29.110.

60.220 Moral Philosophy /A 2:2 (3) The theories concerning the nature of goodness found in Western philosophy. The major topics of discussion are: traditional principles for evaluating goodness and telling right from wrong; the difference between fact and value; the justification of normative judgments; objectivity in ethics; and

the relationship between moral and nonmoral goodness. Usually offered every term. *Prerequisite*: for General Education credit: 60.105 or 76.150 or 73.110. *Note*: not open to students who have taken 60.320 Ethics.

60.221 Philosophy, Politics, and Society /A, S (3) Theories of the nature of society and justification of social institutions. Critical study of such social problems as control of technology and the education, militarism, racism, imperialism, civil disobedience, rebellion, and revolution. Usually offered every spring.

60.225 Ethical Issues in Government, Business, and Media /S 4:2 (3) The major types of ethical principles that affect individual behavior in public and private institutions. The constraints that organizational structures and technology impose on ethical decision making. Case studies of employee privacy, welfare rights, affirmative action, advertising and research ethics, professional ethical codes, exploitation, developmental ethics, just war theories. Usually offered every fall. *Prerequisite*: for General Education credit: 53.110 or 54.105. *Note*: not open to students who have taken 60.223 Moral Issues in Business and Government.

60.230 Meaning and Purpose in the Arts /A 1:2 (3) Leading theories of the nature, purpose, and meaning of artistic activities and objects examined through writings of philosophers, artists, and critics of ancient and modern times. Both Western and non-Western viewpoints are considered. Student projects apply critical ideas to particular works in an art form familiar to them. Usually offered every fall. *Prerequisite*: for General Education credit: 23.105 or 67.110 or 05.100. *Note*: not open to students who have taken 60.330 Aesthetics.

60.300 Ancient and Medieval Philosophy /A (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.600. Usually offered alternate falls.

60.301 Modern Philosophy from Bacon to Hegel /A (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.300. Meets with 60.601. Usually offered every spring.

60.302 Nineteenth Century Philosophy (3) This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and scientific developments, such as the Darwinian revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and philosophy of science. Meets with 60.602. Usually offered every fall. *Prerequisite*: one introductory course in philosophy.

60.303 Twentieth Century Philosophy (3) This is the sequel to 60.302. It explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and intellectual developments, such as Einstein's and Freud's discoveries.

Topics covered include pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, and analytic philosophy. Meets with 60.603. Usually offered every spring. *Prerequisite*: one introductory course in philosophy.

60.310 The Classical Period (3) Regularly recurring topics include: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.610. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite*: 60.300 or permission of instructor.

60.311 Modern European Movements (3) Regularly recurring topics include: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.611. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite*: 60.301 or permission of instructor.

60.312 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.612. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite*: two courses in philosophy or permission of instructor.

60.313 Studies in Oriental Philosophy (3) Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.613. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

60.314 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.614. Usually offered alternate falls. *Prerequisite*: one course in philosophy.

60.341 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.641. Usually offered every fall. *Prerequisite*: one course in philosophy or permission of instructor.

60.342 Philosophy of Psychology (3) After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.642. Offered irregularly. *Prerequisite*: one course in philosophy or permission of instructor.

60.350 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning; the merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. Meets with 60.650. Offered irregularly. *Prerequisite*: 60.100 or permission of instructor.

60.353 Metaphysics (3) Course focuses on one of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.653. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

60.355 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.655. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.386 Selected Topics in Philosophy (3) Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth and twentieth century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Topics include: theories of human nature, medical ethics, philosophy of language, advanced philosophical argumentation, and philosophy of reason and passion. Usually meets with 60.686. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 60.105 or permission of instructor.

60.390 Independent Reading Course in Philosophy (1-6)

60.391 Internship in Philosophy and Social Policy (1-6) Meets with 60.691. Usually offered every term.

60.392 Cooperative Education Field Experience in Philosophy and Social Policy (3-6) Meets with 60.692.

60.490 Independent Study Project in Philosophy (1-6)

60.498 Honors Project in Philosophy (3-6) May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of department and University Honors Director.

Graduate and Advanced Undergraduate Courses

60.520 Seminar on Ethical Theory (3) Survey of the development of ethical theory in Western philosophy by analysis of major works in classical and contemporary moral philosophy. Among the issues investigated are the nature of the good and the right, the possibility of moral knowledge, the principles of individual virtue and social justice, the problems of ethical relativism and absolutism, and the foundations of modern conceptions of human rights. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

60.525 Seminar on Modern Moral Problems (3) Investigation of moral philosophers' attempts to analyze specific moral problems (e.g., abortion, euthanasia, pornography, surrogate parenting, capital punishment, economic justice, affirmative action, research with human subjects, genetic research, government secrecy and deception) and to formulate general principles for ethical analysis of social policies and professional ethics (for lawyers, doctors, etc.). Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.590 Independent Reading Course in Philosophy (1-6)

Graduate Courses

Note: Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

60.600 Ancient and Medieval Philosophy (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.300. Usually offered alternate falls.

60.601 Modern Philosophy from Bacon to Hegel (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.600. Meets with 60.301. Usually offered every spring.

60.602 Nineteenth Century Philosophy (3) This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and to scientific developments, such as the Darwinian Revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and the philosophy of science. Meets with 60.302. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

60.603 Twentieth Century Philosophy (3) This is the sequel to 60.602. The course explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and of intellectual developments, such as Einstein's and Freud's discoveries. Topics covered include pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, and analytic philosophy. Meets with 60.303. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.610 The Classical Period (3) Regularly recurring topics include: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.310. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* 60.600 or permission of instructor.

60.611 Modern European Movements (3) Regularly recurring topics include: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.311. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 60.601 or permission of instructor.

60.612 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.312. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.613 Studies in Oriental Philosophy (3) Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.313. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

60.614 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.314. Usually offered alternate falls. *Prerequisite:* one course in philosophy.

60.630 Aesthetics (3) Philosophical theories of the meaning and value of art in Western culture, illustrated by reference to works of literature, drama, painting, sculpture, architecture, and music. Students majoring in artistic fields are encouraged to do interdisciplinary projects dealing with application of aesthetic theory to materials in their own fields. Offered irregularly. *Prerequisite:* one course in philosophy or permission of instructor.

60.641 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.341. Usually offered every fall. *Prerequisite:* one course in philosophy or permission of instructor.

60.642 Philosophy of Psychology (3) After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.342. Offered irregularly. *Prerequisite:* one course in philosophy or permission of instructor.

60.645 Seminar on Theories of Human Nature (3) Theories of the nature of human beings and the human condition. This course considers contemporary as well as historical answers to questions such as, Are we free or determined? rational or irrational? inherently good or evil? selfish or altruistic? spiritual or materialistic? social or individualistic? Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.650 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning; the merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. Meets with 60.350. Offered irregularly. *Prerequisite:* 60.100 or permission of instructor.

60.652 Epistemology (3) Rotating topics may include one of the following: knowledge and belief, memory and the past, meaning and meaningfulness, thought and feeling, and observation in the social sciences. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

60.653 Metaphysics (3) Course focuses on one of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and

metaphilosophy. Meets with 60.353. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

60.655 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.355. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.686 Selected Topics in Philosophy (3) Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth and twentieth century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Topics include: medical ethics, philosophy of language, advanced philosophical argumentation, and philosophy of reason and passion. Usually meets with 60.386. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 60.105 or permission of instructor.

60.690 Independent Study Project in Philosophy (1-6)

60.691 Internship in Philosophy and Social Policy (1-6) Meets with 60.391. Usually offered every term.

60.692 Cooperative Education Field Experience in Philosophy and Social Policy (3-6) Meets with 60.392.

60.702 Graduate Seminar in Philosophy (3-12) Intensive study of selected problems under individual direction. Multiple registrations of three credit hours each for a maximum of twelve hours are permitted during a semester. Topics: history of philosophy, metaphysics, logic, epistemology, philosophy of science, value theory, philosophy of religion, social philosophy, and Eastern philosophy. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* four courses in philosophy and permission of department chair.

60.797 Master's Thesis Seminar (1-6) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

60.799 Doctoral Dissertation Seminar (1-24) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

Religion

Undergraduate Courses

61.105 The Religious Heritage of the West /A 2:1 (3) The contribution of religion to Western civilization. The eastern Mediterranean roots of Western religions, the emergence of Christianity in the Greco-Roman world, and the rise of Islam. The mature religious synthesis of Medieval Europe. Modern secularism's challenge to this tradition. Usually offered every fall. *Note:* not open to students who have taken 61.270 Religious Heritage of the West.

61.150 Introduction to the Old Testament (3) Emphasis on substantive content of the Old Testament. Special attention to historical and cultural background of the text. Usually offered every fall.

61.170 Introduction to the New Testament (3) Literary, historical, and theological study of the New Testament. Particular attention to Jesus, Paul, and the development of the Christian movement. Usually offered every spring.

61.185 Forms of the Sacred: Religions of the East / A 3:1 (3) This course begins with an introduction to the method of studying the history of religions. A brief survey of primal religions and Judaism and Christianity provides a basis for comparative analysis of the major Eastern religions: Hinduism, Buddhism, Chinese religion, Shinto, and Islam. Usually offered every term. *Note:* not open to students who have taken 61.183 Comparative Religion.

61.210 Asian and African Religious Traditions / A 3:2 (3) The religious traditions of South Asia, East Asia, and sub-Saharan Africa. How these religious traditions function as systems of symbols, how they interact with both indigenous religious traditions (in Asia) and external religious traditions (Islam and Christianity), and how they respond to modernization and imperialism. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 61.185. *Note:* not open to students who have taken 61.305 Philosophies of the East.

61.220 Religious Thought / A 2:2 (3) The study of religion and religion's role in life. Beginning with modern approaches to the study of religion, this course examines religious ways of defining the human situation, the quest for salvation, wholeness, and transcendence, and the problem of speaking about the divine within the terms of modern culture. Usually offered every spring. *Prerequisite for General Education credit:* 07.100 or 61.105. *Note:* not open to students who have taken 61.180 Introduction to Religious Thought.

61.231 Judaism and Christianity (3) Basic issues in biblical and post-biblical literature of Judaism and Christianity, such as nature of covenant, Messiah, kingdom-state, law, and faith. Usually offered every spring.

61.300 Contemporary Religious Thought (3) Major currents in nineteenth and twentieth century Jewish and Christian religious thought. The origins of religious existentialism, rise of modern atheism, conflict with natural and social sciences, influence of historical-critical method, development of religious liberalism, and the twentieth-century reaction of neo-orthodoxy and "crisis theology." Usually offered alternate falls.

61.360 Jesus: Prophet, Miracle Worker, Madman? (3) An attempt to develop a method by which to uncover the life and teachings of the historical Jesus and to compare these findings with other early and recent Jewish and Christian portraits of Jesus. Usually offered alternate falls.

61.361 Paul, the Jew, and Earliest Christianity (3) Analysis of the life and literature of this early Christian with emphasis on his relation both to Pharisaic Judaism and to Hellenistic thought. Modern interpretations are also read. Usually offered alternate springs.

61.370 Islam (3) Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Usually offered alternate falls.

61.373 Hinduism (3) This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Usually offered every spring.

61.386 Topics in Religious Discussion (3) Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent offerings have included: Thought of Reinhold Niebuhr, Philosophical Theology of Paul Tillich, Thought of Rudolf Bultmann, God Talk, Problem of God, Social Scientific Study of Religion in Small Group Process, New Religious Movements, Occult World, Johannine Literature, The Catholic Tradition, Prophets and Politics, The Gospels, and Varieties of Early Christianity and Their Modern Counterparts. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

61.390 Independent Reading Course in Religion (1-6)

61.490 Independent Study Project in Religion (1-6)

61.498 Honors Project in Religion (3-6) *Prerequisite:* permission of department.

Graduate and Advanced Undergraduate Courses

61.590 Independent Reading Course in Religion (1-6)

Graduate Courses

61.690 Independent Study Project in Religion (1-6)

61.693, 61.694 Graduate Seminar in Religious Studies (3-12), (3-12) Intensive study of selected problems in religious thought. With faculty permission, student attends a class at the 300 level or above. Student also meets individually with professor for additional tutorial work. Register for 61.694 if graduate degree is in religious studies; 61.693 is for graduate students in other fields who wish to do interdisciplinary work in religious studies. Usually offered every term. *Prerequisite:* departmental permission.

61.797 Master's Thesis Seminar (1-6) Usually offered every term. *Prerequisite:* permission of department chair.

Sociology

Undergraduate Courses

65.100 American Society / S 4:1 (3) American pluralism and the variety of social arrangements and relationships found in American society. The emphasis is on how society is stratified; how organizations and institutions influence the way Americans think, talk, feel, and act; and how different groups (racial and ethnic) and divisions (gender and class) within society have differential access to power and privilege. Usually offered every term. *Note:* not open to students who have taken 65.302 American Society or 65.200 Introduction to Sociology.

65.110 Views from the Third World / S 3:1 (3) Introduction to the sociology of the Third World through study of the works of its own intellectuals and political leaders.

Reflections on Third World societal structures and explanations of dilemmas of development and of strategies for overcoming these dilemmas. The course links texts to their Third World context. Usually offered every term.

65.201 Marriage and Family Living (3) Recent changes in the American family; modern dating, mate selection, engagement, early marital adjustment, communication, money, working wife, sex, and in-law problems. Not open to first-semester freshmen. Usually offered every term.

65.205 The Family /S 4:2 (3) The family as a social institution in a changing society. Social inequalities of class, race, ethnicity, and gender as key factors in shaping diverse forms and experiences in family life. Theoretical and actual alternatives to family patterns as well as the future of the American family. Usually offered every term. *Prerequisite for General Education credit:* 03.150 or 57.105. *Note:* not open to students who have taken 65.382 The Family.

65.210 Inequality and Stratification /S 4:2 (3) Structured inequality in society in socioeconomic, racial, and gender terms. How the individual's life and experiences are circumscribed and structured by his or her position in the social stratification system. How and why stratification systems emerge and are reproduced and their alternatives. Usually offered every term. *Prerequisite for General Education credit:* 65.100 or 53.110. *Note:* not open to students who have taken 65.350 Social Inequality.

65.215 The Rise of Critical Social Thought /S 2:2 (3) Nineteenth century issues about social science as a critical vision of society; imagined social possibilities and their comparison to existing social institutions. Secondary themes are individual development, community, large societal institutions, the effects of industrialism and capitalism, and the limits of social science knowledge as a guide to social planning and social action. Usually offered every term. *Prerequisite for General Education credit:* 60.105 or 76.150.

65.220 Work and Leisure in America /S 4:2 (3) A cultural, socio-political, and economic analysis of how people in the U.S. and other parts of the world work and play. Examines the development of American forms of work and leisure organizations and the impact of gender, race, and class on work and leisure. The sociological concepts of alienation, stress, and role conflict are used to explore the effect of work and non-work (such as retirement and unemployment) on the individual and society. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 54.105 or 65.100. *Note:* not open to students who have taken 65.360 Sociology of Work.

65.225 Contemporary Arab World /S 3:2 (3) The social, economic, and political structure of the Arab World with special emphasis on the impact on this region of the rise and fall of oil revenues. A macrosociological approach places the region in the global political economy and introduces students to its problematics and historical-cultural specificity. Usually offered every spring. *Prerequisite for General Education credit:* 33.120 or 65.110.

65.230 Conflict and Change in Latin America /S 3:2 (3) An introduction to Latin America through the lens of sociology. Latin American forms of economic and political

organization and the societal conflicts over them. Alternative Latin American models for development and change; who has advocated each model and why. Usually offered every spring. *Prerequisite for General Education credit:* 65.110 or 19.110.

65.280 Sociological Examination of Italy since World War II (3) Examination of significant facets of Italian society in the period since World War II with a comparison of Italian and American experience. Offered only in Rome. Usually offered every term.

65.301 Social Problems (3) Theoretical and sociological perspectives on current social problems; for example, medicine, education, racism, terrorism, welfare, sexism, mental illness, population, energy, pollution, alienation, and war. Social problems are examined at four levels: individual, group and community, national, and worldwide. Usually offered every spring and summer. *Prerequisite:* 65.100.

65.302 American Society (3) Analysis of contemporary American social institutions. American social system in historical perspective, value systems, ethnic composition, formal and informal structures. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.303 Deviance and Social Control (3) Analysis of the relationship of social control to social inequality and social change, with deviance studied in this context. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.320 Introduction to Social Research (3) An introduction to the major research methods in social science, their links to theory and practice, and their use in research projects. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.330 Social Change and Social Conflict (3) Analysis of the causes, processes, and consequences of social change. Examination and analysis of theories of social change. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.331 Political Sociology (3) Analysis of the contributions of classical sociological writers to theory and research in politics. Methods and techniques of examining political behavior and institutions. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.332 Law and Society (3) Study of the relationship between social reality and law. Analysis of contradictions between legal norms and social structure in the process of change. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.333 Capitalism, Socialism, Communism (3) Analysis of contemporary societies. Comparative study of social conditions, institutions, values, and relations between societies. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.340 Social Interaction (3) Sociological perspective of the relationships between individuals and groups. Socialization roles in small and complex organizations, mass communication, and social movements. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.342 Social Psychology of Intergroup Tensions (3) Intergroup prejudice and its relation to other aspects of personality and social behavior. Recent research on the determinants of intergroup attitudes. Techniques for the reduction of intergroup tension. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.351 Race and Ethnic Relations (3) A focus on what happens when divergent types of persons effect social contact. Racial, ethnic, tribal, national, and religious interactions throughout the world. The processes include conflict, amalgamation, acculturation, assimilation, prejudice, and discrimination. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.352 Women and Society (3) Location and description of women in population. The nature and extent of prejudice and discrimination against women. The significance of female equality to the social order. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.380 Religion and Society (3) Concepts, methods, and techniques in the sociological analysis of religion. Historical, comparative, and functional approaches to religion. Emphasis on European and American Christianity. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.381 Social Aspects of Mass Communications (3) An introduction to mass-media research from a sociological perspective. Special attention to current empirical research on public opinion, the power of the communications media, and the effects of the media on adults and children. Usually offered alternate springs. *Prerequisite:* 65.100 or permission of instructor.

65.387 Urban Sociology (3) Analysis of contemporary life in cities. Study of development, theories, and problems of urban life. Comparative and research perspectives. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.389 Environment and Society (3) Exploration into the relationship between social groups and the physical environment. Focus on the actions and reactions of public and policy groups in identifying and coping with natural and technological problems. Analysis of specific socio-environmental problems and the roles and methods of social scientists and others in social-impact assessment and social change. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.390 Independent Reading Course in Sociology (1-6)

65.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

65.410 Classical Sociological Theory (3) Historical background of theories, concepts, and methods of sociology. The emergence and characteristics of the most significant sociological systems. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.411 Contemporary Sociological Theory (3) An analysis of modern sociological theories and schools of thought. Logic and procedures of theory construction. Usually offered every spring. *Prerequisite:* 65.410.

65.422 Survey Research Methods (3) An overview of survey research advantages and limitations. Practical experience in all phases: design, sampling, questionnaire construction, interviewing, field-work organization, data-file creation, computerized data analysis, and report writing. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.423 Social Policy Research (3) An overview of major issues in social-policy program evaluation. Types of evaluations and basic research methods appropriate to each. Practical experience in designing and carrying out both qualitative and quantitative evaluations of social programs. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.490 Independent Study Project in Sociology (1-6)

65.491 Internship (3-6) Internship in social service, social change, and social research agencies. Internships in social research agencies require completion of 65.320. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.498, 65.499 Honors: Senior Year (1-6)

Graduate and Advanced Undergraduate Courses

65.530 Macrosociology (3) Historical and comparative analysis of whole societies and their structures, relations between societies, and world systems. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.531 Regional Studies in Social Change (3) Topical courses examining social change in different parts of the world as a cause and consequence of economic development. Emphasis on the social effects of governmental or corporate policies. Examples include Latin America and the Middle East. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* graduate standing or three courses in sociology.

65.540 Social Psychology: Sociological Perspectives (3) The relationships between person and group: concepts, theories, and methods. Interaction of social-structure variables and personality development, adult socialization and aging, collective behavior, and intergroup relations. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology.

65.550 Studies in Social Stratification and Mobility (3) Class, status, and power relations in society. Caste, estate, social class, and social mobility. Theories and research findings of current importance. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology.

65.560 Work: Sociological Perspectives (3) The relationships between social structure, occupational structure, and the kinds of work available. The organization of work and the way people carry out their work. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.570 Sociology of Gender and Family (3) The study of gender and family as basic principles of the social order and primary social categories. Introduces students to the

theories, data sources and applications of family structures and gender relationships in the United States and cross-culturally. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.580 Social Policy Analysis (3) Examines the variety of conceptual frames that social scientists use in analyzing social policies and provides a basis for their selection. A second part deals with the detailed analysis of case studies and introduces practitioners who contributed to them. Usually offered alternate falls. *Prerequisite:* graduate standing or three courses in sociology.

65.590 Independent Reading Course in Sociology (1-6)

Graduate Courses

65.610 History of Sociological Theory (3) Comparative study of major theorists in the nineteenth and twentieth centuries. Usually offered every fall.

65.611 Modern Sociological Theory (3) An analysis of modern sociological theories and major schools of social thought. Problems of theory construction. Usually offered every spring. *Prerequisite:* 65.610.

65.620, 65.621 Social Research I, II (3), (3) Conceptual and procedural aspects of research, with some accent on quantitative methods. Formulation and specification of research questions, development of research designs, and translation of plans into action (measurement, data collection, data processing, and preparation of research reports). 65.620 usually offered every fall; 65.621 usually offered every spring.

65.630 Conflict and Change: Macrosociological Perspectives (3) Analysis of socio-political processes in the development of national, regional, and world systems. The formation of social movements in this context. Usually offered every spring. *Prerequisite:* 65.530 or permission of instructor.

65.650 Class and Stratum: Organization and Consciousness (3) Comparative analysis of the formation, organization, conflict, and consciousness of classes and strata. Includes analysis of associated systems of belief. Usually offered every fall. *Prerequisite:* 65.550 or permission of instructor.

65.670 Gender, Family, and Work (3) Informs students about the interrelationship between work and family for both men and women. The course deals with research and policy concerns in both a national and cross-cultural perspective. Usually offered alternate springs. *Prerequisite:* 65.560, 65.570, or permission of instructor.

65.680 Social Policy Research (3) An introduction to research techniques in the fields of applied sociology, evaluation research, and the interdisciplinary arena of social policy studies. Provides students with the necessary sociological context and methodological expertise for participating in practical social policy research. Usually offered every fall. *Prerequisite:* 65.580 or permission of instructor.

65.690 Independent Study Project in Sociology (1-6)

65.691 Internship (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing.

65.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

65.710 Seminar in Sociological Theory (3) Intensive study of selected areas or schools of sociological thought. Emphasis on the use of primary source materials. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of instructor.

65.720 Seminar in Social Research (3) Advanced study in selected methodological approaches and research techniques in social research. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of instructor.

65.730 Seminar in Macrosociology (3) Theoretical and methodological problems in the field. Preparation of related research reports. May be repeated for credit in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* permission of instructor.

65.750 Seminar in Social Stratification (3) Exploration and criticism of theoretical and methodological aspects of the field. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.770 Seminar in Gender and Family (3) The focus of this seminar is on reconstructing social science knowledge and encouraging primary research using gender as a guiding analytic category along with race and social class. Usually offered alternate falls. *Prerequisite:* permission of instructor.

65.795 Master's Research: Independent Study in Sociology (3) Directed research under the supervision of a faculty member selected by the student. Preparation of a substantial research report on a topic related to the student's field of concentration. *Prerequisite:* permission of instructor.

65.797 Master's Thesis Independent Study (1-6)

65.799 Doctoral Dissertation Independent Study (1-12) Directed dissertation research under the supervision of the student's dissertation committee chair. Open to graduate students whose dissertation proposal has been approved by the department. Usually offered every term.

Performing Arts: Music, Theatre, Dance, and Arts Management

Undergraduate Courses

67.102 Modern Dance I / A (3) Introduction to beginning modern dance techniques. In addition to focusing on correct alignment and kinesthetic awareness, the course includes videotapes, readings, and attendance at live dance performances. With permission of instructor, may be repeated for credit; different repertoire is required. Usually offered every term.

67.103 Beginning Jazz Dance /A (3) An introduction to jazz dance techniques. In addition to focusing on correct alignment and precise body articulation in the jazz idiom, the course includes videotapes, readings, class observations, and attendance at live dance performances. With permission of instructor, may be repeated for credit, but not within the same term; repertoire must be different. Usually offered every term.

67.104 Beginning Ballet (3) Development of technical skills in classical ballet vocabulary. With permission of instructor may be repeated for credit; different repertoire is assumed. Usually offered every term.

67.110 Understanding Music /A 1:1 (3) An introduction to musical language through listening and comprehension. The fundamentals of acoustics, melody, harmony, form, texture, and color in a wide range of music from ancient and global music to European concert music. Includes listening and concert-attendance requirements. Usually offered every term. *Note:* not open to those who have taken 67.120 Music Appreciation I.

67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3) An overview of the principles of drama from the ancient Greeks to contemporary society. The class draws on theatre history and social context, the reading of great literature, critical analyses, and artistic exploration to culminate in the experience which is the essential element of the art itself—performance. Usually offered every term. *Note:* not open for credit to students who have taken 67.150 Introduction to Performing Arts: Theater.

67.122 The Evolution of Jazz and Rock /A (3) Cultural sources and growth of divergent stylistic characteristics of jazz and rock through the past hundred years. Usually offered every term.

67.123 Selected Topics in Music (3) Study of an area such as orchestral, chamber, opera, American, folk, and twentieth century music. Previous offerings have included: Music, Performance, and Society; and Beethoven: The Hero Individual in Music. May be repeated for credit in the same term; topic must be different. Usually offered every fall and spring.

67.124 Music Theory I: Basic Harmony and Analysis (3) The triad and seventh chords with their inversions, harmonic function and progression, cadences, four-part harmonization, simple modulation using secondary dominants, and pivot chords. Usually offered every fall. *Prerequisite:* 67.126 or ability to read music notation.

67.125 Music Theory II: Continuing Harmony (3) Classical harmonic structure including chromatically altered chords. Consideration of form by analysis and composition. Usually offered every spring. *Prerequisite:* 67.124 or equivalent.

67.126 Music Theory for Nonmajors /A (3) A study of rhythm, modes, scales, intervals, chords, and basic musical forms. Usually offered every term.

67.127 Musicianship I (3) Reading, hearing, playing, singing, and conducting of simple diatonic musical materials. Usually offered every fall.

67.128 Musicianship II (3) The second semester of a comprehensive program of music reading, singing, key-

board, and conducting. Usually offered every spring. *Prerequisite:* 67.127.

67.142 University Chorale (1) Prepares and presents major works of choral literature. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.143 University Singers (2) Small, highly select, traveling choral ensemble which presents both sacred and secular programs. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.144 University Orchestra (1) Concerts, sight-reading, and study of selected compositions. Open to all students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every spring and fall. *Prerequisite:* permission of instructor.

67.145 Instrumental Ensembles (1) String, mixed, and wind ensembles, and jazz workshop. Open to students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.155 Oral Interpretation (3) Analysis, interpretation, and practice in expressive reading of literature to develop ability to share literature with an audience. Usually offered every spring.

67.160 On Stage! Dance—Music—Theatre /A 1:1 (3) A stage performance of a work of art is a highly controlled presentation using the artistic elements of space, movement, time, sound, and color. This study explores how these elements can be used to bring about audience reactions to dance, music, and theatre. Usually offered every fall.

67.161 Stage Make-Up (1) Basics of stage make-up: make-up material, make-up lists, color charts, facial anatomy, and corrective make-up. Usually offered every spring.

67.200 Dance and Society /A 1:2 (3) Students learn about the cultural importance of dance throughout history, including its ritual, social, and theatrical functions. Students discover the diverse ways and cultural contexts in which people express fundamental experiences and emotions through dance. Usually offered every spring. *Prerequisite for General Education credit:* 67.160 or 67.115.

67.202 Modern Dance II (3) Continuation of 67.102. With permission of instructor may be repeated for credit within the same term; different repertoire is required. Usually offered every fall and spring. *Prerequisite:* 67.102 or permission of instructor.

67.204 Intermediate Ballet (3) Development of technical skills and performance ability in classical ballet vocabulary. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* 67.104 or permission of instructor.

67.205 Masterpieces of Music /A 1:2 (3) Listening to and analyzing masterpieces of Western music from the Middle Ages to the present day. The course includes a variety of genres and styles with background study into the historical era and particular composers. Usually offered every spring. *Prerequisite for General Education credit:* 67.110. *Note:* not open to those who have taken 67.121 Music Appreciation II.

67.210 The Great Composers: Lives and Music /A 1:2 (3) The place of music in society is reflected in the lives and work of a series of major composers who represent contrasting eras, nationalities, musical styles, and aesthetic goals. Students examine the social history of music through listening, analysis, reading, and research into the fascinating people who have made music. Usually offered every fall. *Prerequisite for General Education credit:* 67.110 or 07.105 or 67.160.

67.215 Opera on Stage and Film /A 1:2 (3) Classics of operatic repertoire. Through readings, viewing videotapes, and attending live productions, students confront the literary sources, dramatic and musical structures, cultural forces, and the social, political, and historical environments that shaped the works and gave them life. Usually offered every spring. *Prerequisite for General Education credit:* 67.110 or 23.135 or 67.160.

67.220 Reflections of American Society on Stage and Screen /A 1:2 (3) Artistic and cultural developments and societal phenomena as reflected in stage, film, and television performance in the twentieth century United States. By reading the written versions and viewing the productions, students investigate and analyze the relationships between the creative artists, their produced works, and the societal contexts within which they originated. Usually offered every spring. *Prerequisite for General Education credit:* 17.105 or 23.135 or 67.160.

67.225 The African American Experience in the Performing Arts /A 1:2 (3) African American contributions to uniquely American forms and institutions in the performing arts. The course examines the artistic and cultural implications of these forms—from minstrelsy, vaudeville, and tap dance to jazz, blues, and gospel, set against the societal phenomena that shaped them, as well as the influence of African Americans on the broad range of performing arts genres, including musical theatre, drama, comedy, dance, and film. Usually offered every fall. *Prerequisite for General Education credit:* 17.105 or 23.135 or 67.110.

67.227 Musicianship III (3) The continuation of musicianship into the second year with addition of chromatic materials. Usually offered every fall. *Prerequisite:* 67.128.

67.228 Musicianship IV (3) The continuation of musicianship training with advanced materials and singing, reading, and keyboard. Conducting of these. Usually offered every spring. *Prerequisite:* 67.227.

67.251 Fundamentals of Acting I (3) Beginning performance skills for actors, including elementary scene study, stage movement, and role analysis. Usually offered every term.

67.252 Fundamentals of Acting II (3) A continuation of study in beginning performance skills for actors. Includes

scene study, textual analysis, and character exploration. Usually offered every term. *Prerequisite:* 67.251 or permission of instructor.

67.260 Principles of Production (4) Techniques of stagecraft including scenery, properties, lighting, and sound, along with theatrical production philosophy and organization and an overview of the process of design. Mandatory lab sessions provide experience in scenic construction, basic electricity and stage lighting, and live-performance support. Usually offered every fall.

67.265 Theatre Practicum (1) Provides the student with practical experience in designated areas of technical theatre: set construction and lighting, costuming, public relations, and stage management. May be repeated for credit but not within the same term; topic must be different. Usually offered every term.

67.302 Modern Dance III (3) Continuation of 67.202. Meets with 67.602. With permission of instructor may be repeated for credit; different repertoire is required. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

67.305 History and Philosophy of Dance I (3) The evolution of Western theatrical dance, with emphasis on the sixteenth through the nineteenth centuries. Meets with 67.605. Usually offered every fall.

67.306 History and Philosophy of Dance II (3) A chronological survey of dance in the twentieth century. Writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered every fall. *Prerequisite:* 67.305.

67.320 Music Theory III: Modal Counterpoint (3) Investigation of monodic and contrapuntal writing from Gregorian chant through Palestrina by analysis and composition. Usually offered alternate falls. *Prerequisite:* 67.126 or equivalent.

67.321 Music Theory IV: Tonal Counterpoint (3) Contrapuntal writing and analysis of the invention, chorale-prelude, fugue, and other imitative forms. Usually offered alternate springs. *Prerequisite:* 67.320.

67.322 History of Music I (3) Music in Western civilization from ancient times to the seventeenth century, including a brief survey of primitive and oriental music. Illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* ability to read music notation.

67.323 History of Music II (3) Music in Western civilization from the eighteenth century to the present. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* ability to follow a musical score.

67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3) Examination of the structural principles of tonal music from the baroque through the romantic periods. Usually offered alternate falls. *Prerequisite:* 67.125.

67.325 Music Theory VI: The Twentieth Century (3) Diverse styles and compositional techniques of the twentieth century are examined through analysis. Usually offered alternate springs. *Prerequisite:* 67.324.

67.350 Scene Study (3) An intermediate-level acting class focusing on character analysis within the scene and within

the play. Class discussion, instructor critique, improvisation, and vocal and physical warm-up are emphasized. Usually offered every term. *Prerequisite:* 67.252.

67.351 Movement for Actors (3) Continuation of 67.350 with a focus on movement improvisation and the exploration of physical actions as a means of creating character. May be repeated for credit but not within the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 67.350 or permission of instructor.

67.352 Beginning Directing (3) A studio course providing training in the theory and practice of blocking and play analysis for the beginning director. Arena, proscenium, and environmental staging are considered. Usually offered every term. *Prerequisite:* 67.115, 67.251, 67.260.

67.355 Speech and Voice for the Theatre (3) For theatre majors concerned with developing effective techniques of voice and diction. Usually offered every spring.

67.361 Costume Design (3) Study of the history and design of theatrical costumes. Usually offered alternate springs. *Prerequisite:* 67.265 Theatre Practicum: Costume Shop.

67.362 Lighting Design (3) Lighting technology, electrical theory, and the design of lighting as an integral part of the performing arts. Usually offered alternate springs. *Prerequisite:* 67.260 or permission of instructor.

67.363 Scene Design (3) Fundamentals of design for the performing arts; preparation of sketches and drawings based on the principal styles and periods. *Prerequisite:* 67.260.

67.365 Theatre History I (3) The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Meets with 67.665. Usually offered every fall.

67.366 Theatre History II /A (3) The historical pattern of drama as an art form and the social function of the theatre from the baroque to the present. Meets with 67.666. Usually offered alternate springs. May be taken independently of 67.365.

67.367 Theatre History III (3) American and European drama of the twentieth century. Usually offered alternate springs.

67.390 Independent Reading Course in Performing Arts (1-6)

67.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

67.398, 67.399 Honors, Junior Year (1-6), (1-6) May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring.

67.404 Advanced Ballet (3) Advanced ballet exercises and movement sequences to increase technical skill and personal expression. Meets with 67.604. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* 67.204 or permission of instructor.

67.410 Workshop in Dance Production (2-3) Develops techniques and provides experience in various phases of dance production. Repertory and improvisation. Meets with 67.610. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

67.411 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. Meets with 67.611. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of instructor.

67.412 Composition of Dance II (3) Continuation of 67.411. Meets with 67.612. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 67.411 or permission of instructor.

67.450 Rotating Topics in Theatre (1-3) Designed for advanced undergraduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques for improvisation, advanced acting styles, children's theatre, creative dramatics, Shakespeare, stage management, music theatre, and other selected topics. Meets with 67.650. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.490 Independent Study Project in Performing Arts (1-6)

67.491 Performing Arts: Internship (1-6) Usually offered every term.

67.498, 67.499 Honors, Senior Year (1-6), (1-6) May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring.

Graduate and Advanced Undergraduate Courses

67.506 The Moving Body (3) The practical application of anatomy and kinesiology to performance work in dance, music, and theatre. Warm-up exercises, injury prevention, sports, and everyday activities are also covered. Usually offered every fall. *Prerequisite:* permission of instructor.

67.507 Principles of Movement (3) Principles of Movement is a system of analysis for describing and understanding the qualitative aspects of movement. Students learn to expand their movement vocabulary, both spatially and dynamically, and to develop their verbal skills in observing and describing dance. Usually offered every spring.

67.520 Studies in Music Literature (3) Survey of a selected area such as chamber, orchestral, keyboard, or choral music. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Offered irregularly. *Prerequisite:* permission of instructor.

67.524 Studies in Music Theory (3) In-depth studies in areas of theoretical concern, such as fugue, advanced counterpoint, and serial techniques. May be repeated for credit but not in the same term; topic must be different.

Usually offered every term. *Prerequisite:* 67.325 or permission of instructor.

67.526 Orchestration (3) Scoring for various chamber ensembles and full orchestra. Analysis of the orchestration of composers from the classical era to the present. Usually offered alternate falls. *Prerequisite:* 67.324, which may be taken concurrently.

67.528 Diction for Singers (2) Pronunciation practices in languages relevant to vocal literature: French, Italian, and German. Usually offered alternate falls.

67.529 Medieval Music (3) Advanced study of European music from the early Christian era to the beginning of the fifteenth century. Emphasis on stylistic and notational problems, primary sources, and bibliography. Illustrated with slides and recordings. Written paper and taped listening assignments. Usually offered alternate falls. *Prerequisite:* 67.322 or equivalent.

67.530 Renaissance Music (3) Comprehensive survey of European music of the fifteenth and sixteenth centuries. Emphasis on stylistic innovations, primary sources, and bibliography. Usually offered alternate springs. *Prerequisite:* 67.322 or equivalent.

67.531 Music of the Baroque Era (3) Advanced study of European music of the seventeenth and early eighteenth centuries. Comprehensive coverage of styles and forms, illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* 67.322 or equivalent.

67.532 Music of the Classical Era (3) Growth of new idioms and forms from the early eighteenth to the early nineteenth century. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.323 or equivalent.

67.533 Music of the Romantic Period (3) Historical and cultural background; intensive study of the composers and works of the period. Emphasis on individual styles, nationalism, and program music. Offered irregularly. *Prerequisite:* 67.323 or equivalent.

67.534 Music of the Twentieth Century (3) Chronological survey of musical styles and ideas from 1900 to the present, with emphasis on a few selected composers. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.323 or equivalent.

67.535 Studies in Music History (3) Concentration in an area such as opera, non-Western music, or performance practices. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

67.536 Research Methodology in Music (3) Methods and tools of research. Class project, oral report, and paper. Transcription of vocal notations and instrumental tablaturs. Survey of scholarly editions, periodicals, and reference works in the major European languages. Usually offered every fall. *Prerequisite:* 67.322, 67.323, or equivalent.

67.537 Music: Analytical Studies (3) A study of analytical techniques applied to a representative sample of music from the medieval through contemporary periods. Usually offered alternate falls. *Prerequisite:* 67.325.

67.543 Pedagogy I (2) Seminar to explore concepts of vocal and instrumental performance and their application to teaching in a private studio. Usually offered every fall. *Prerequisite:* permission of instructor.

67.544 Pedagogy II (2) Survey of literature and teaching of instrumental and vocal techniques. Usually offered every spring.

67.545 Chamber Ensembles (1) Performance in particular areas of music literature by small, select groups, including Opera Workshop and Collegium Musicum. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term. *Prerequisite:* audition.

67.546 Internship in Music (3) Practical professional experience for selected students who work with a cooperating agency directly in their professional field under faculty supervision. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

67.547 Pedagogy III (3) An in-depth investigation of pedagogical materials relating to the piano and voice, and critical analysis of performance and performing materials. Usually offered alternate falls. *Prerequisite:* 67.543 and 67.544.

67.555 TV Performance I (3) Trains students in the crafts necessary to act in the special framework of television; includes work in lighting, make-up, movement, and single and multiple camera acting techniques. Usually offered every fall. *Prerequisite:* permission of instructor.

67.557 Creative Writers' Performance Laboratory (3) An exploratory course for writers, actors, and directors for study and development of original scripted works and the process inherent in the creation of a dramatic piece. Attention is given to special acting, directing, and writing techniques needed to realize a polished performance of students' original works. Usually offered every spring. *Prerequisite:* some experience in writing, acting, or directing, or permission of instructor.

67.570 Survey of Arts Management (3) Study of various facets of management in the arts: contracts, logistics, organization, etc. Usually offered every fall. *Prerequisite:* permission of instructor.

67.571 Promotion and Public Relations for Performing Arts (3) Examines the techniques of audience development for arts institutions. Basic promotion and public relations skills. Usually offered every spring. *Prerequisite:* permission of instructor.

67.585 Creative Theories and Criticism in Performing Arts (3) Aesthetic and critical constructs which apply to the interrelationship between the performing arts and criticism of them. Usually offered every spring. *Prerequisite:* permission of instructor for non-majors.

67.590 Independent Reading Course in Performing Arts (1-6)

Graduate Courses

67.602 Modern Dance III (3) Continuation of 67.202. Meets with 67.302. With permission of instructor may be repeated for credit, but not in the same term; different

repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* 67.202 or permission of instructor.

67.604 Advanced Ballet (3) Advanced ballet exercises and movement sequences to increase technical skill and personal expression. Meets with 67.404. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

67.605 History and Philosophy of Dance I (3) The evolution of Western theatrical dance, with emphasis on the sixteenth through the nineteenth centuries. Meets with 67.305. Usually offered every fall.

67.606 History and Philosophy of Dance II (3) A chronological survey of dance in the twentieth century; writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered every fall. *Prerequisite:* 67.605.

67.610 Workshop in Dance Production (2-3) Develops techniques and provides experience in various phases of dance production, repertory and improvisation. Meets with 67.410. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

67.611 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. Meets with 67.411. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of instructor.

67.612 Composition of Dance II (3) Continuation of 67.611. Meets with 67.412. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* permission of instructor.

67.650 Rotating Topics in Theatre (1-3) Designed for advanced graduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques in improvisation, advanced acting styles, children's theatre, Shakespeare, stage management, music theatre, and other selected topics. Meets with 67.450. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.665 Theatre History I (3) The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Meets with 67.365. Usually offered every fall.

67.666 Theatre History II (3) The historical pattern of drama as an art form and the social function of the theatre from the baroque to the present. May be taken independently of 67.665. Meets with 67.366. Usually offered alternate springs.

67.672 Case Studies in Performing Arts Management (3) An exploration of major areas of arts management: grants and fund raising; box office, income, and general administration; and arts in education. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 67.570 or permission of instructor.

67.673 Fund-Raising Management for the Arts (3) Examines the factors most conducive to the financial health of institutions and ways of obtaining and maintaining funding. Usually offered every fall. *Prerequisite:* 67.570 or permission of instructor.

67.690 Independent Study Project in Performing Arts (1-6)

67.691 Performing Arts: Internship (1-6) Usually offered every fall and spring.

67.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

67.749 Research Performance: Lecture Recital (3-6) Research topics for M.A. candidates in music performance who choose to present a lecture-recital instead of a thesis. Work includes intensive instrumental or vocal research in lecture topic area. May not be taken before the M.A. recital requirement has been completed. Must be under the supervision of a full-time faculty adviser. Usually offered every term. *Prerequisite:* permission of department chair.

67.797 Master's Thesis Seminar (1-6) Usually offered every term.

67.798 Nonthesis Option Seminar (3-6) Usually offered every term.

Applied Music

Undergraduate Courses

68.100 Class Instrumental Study (1) Beginning study in an announced area (piano, guitar, recorder, various orchestral brass, woodwind, string, and percussion instruments). Prepares the beginning student for private study. May be repeated for credit on another instrument or in the case of piano or guitar for a second semester at a more advanced level. Usually offered every term.

68.101 Class Vocal Study (1) Basic principles of singing. Prepares the beginning student for private study, for more effective choral singing, etc. May be repeated for a second semester at a more advanced level. Usually offered every term.

68.121 Private Instrumental or Vocal Study (1) May be repeated for credit with permission of instructor; different repertoire is assumed. Usually offered every term. *Prerequisite:* 68.100 for piano, 68.101 for voice, or permission of instructor.

68.122 Private Instrumental or Vocal Study (2) With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

68.334 Private Instrumental or Vocal Study (4) Junior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.434 Private Instrumental or Vocal Study (4) Senior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.444 Music Composition (3) Class or individually supervised practice in writing short compositions in specified small forms. Assignments adapted to individual needs and talents of students. May be repeated once for credit. Usually offered every term. *Prerequisite:* 67.321 or permission of instructor.

Graduate and Advanced Undergraduate Courses

68.531 Private Instrumental or Vocal Study (1) Directed at the nonperformance major. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* completion of second year of undergraduate applied music major requirements and audition.

68.532 Private Instrumental or Vocal Study (2) Directed at the nonperformance major. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* completion of second year of undergraduate applied music major requirements and audition.

68.534 Studio Accompanying (2) Provides piano students with practical studio experience with singers and instrumentalists; includes two supervised hours (lessons) and four preparation hours per week. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition consisting of sight-reading and two songs handed out a week in advance.

Graduate Courses

68.791 Private Instrumental or Vocal Study (1) May be repeated for up to six credit hours by a master's degree candidate in performance. Others limited to four credit hours. Usually offered every term. *Prerequisite:* written permission of department.

68.792 Private Instrumental or Vocal Study (2) May be repeated for up to six credit hours by a master's degree candidate in performance. Others limited to four credit hours. Usually offered every term. *Prerequisite:* written permission of the department.

68.794 Advanced Music Composition (3) Guidance in writing large forms and in experimental idioms. Assignments adapted to individual needs, interests, and talents. May be repeated for credit but not in the same term. Usually offered every term. *Prerequisite:* two semesters of 68.444 or permission of instructor.

Community Studies

Undergraduate Courses

71.101 Communications I (3) Develops skills in critical reading and expository writing. Readings include patterned essays, stories, and poems. Students write a number of essays. Fulfills three hours of university English Course Requirement. Usually offered every term.

71.102 Communications II (3) Continuation of 71.101. Continues development of critical reading and writing skills. Readings include novels as well as shorter works, concentrating on African American and Latino authors.

Assignments include a research paper, essays, and creative writing. Fulfills three hours of the university English Course Requirement, but students must take the verbal competency exam. Usually offered every term. *Prerequisite:* 71.101.

71.104 Critical Reading and Thinking (3) Examines what really happens between an author and reader in the reading process. Students closely analyze a number of essays and several books. Usually offered every term.

71.108 Introduction to the Social Sciences (3) Explores the social sciences and their application to specific problems. Issue-oriented, interdisciplinary course involving psychology, economics, and sociology. Usually offered every term.

71.390 Independent Reading Course in Community Studies (1-6)

71.490 Independent Study Project in Community Studies (1-6)

Justice, Law and Society

Undergraduate Courses

73.100 Justice in America /S 4:1 (3) The operations of formal systems of social control and justice in contemporary America; the conditions, values, and processes that have defined them; and the limits of their authority over the individual. Emphasis on the evolution of the criminal, civil, juvenile, and administrative justice systems. Usually offered every term.

73.103 Introduction to Problems of Justice /S (3) Political, legal, economic, and social problems of justice emphasizing crime, deviance, and other conduct resulting in such socially disapproved labels as mentally ill, delinquent, and criminal. Moral and theoretical issues involved and mechanisms for remedying injustice and controlling socially disapproved behavior. Usually offered every term.

73.104 Introduction to Systems of Justice /S (3) An overview of the formal mechanisms of social control as manifested by the components of the criminal justice system (legislatures, planning agencies, law enforcement, courts, and corrections), civil justice systems, and such other mechanisms as civil commitment. Alternatives to formal processing including diversion, pretrial screening and dispute-settlement programs. Usually offered every term.

73.110 Western Legal Tradition /S 2:1 (3) From the biblical era to the American experiment, the Western legal tradition encompasses primitive, divine, natural, canon, secular, and common law. This course examines the key legal documents and issues of the tradition including the Code of Hammurabi, the Ten Commandments, the trials of Socrates and Jesus, the Magna Carta, the Rule of Law, and common law. Usually offered every term.

73.200 Deprivation of Liberty /S 4:2 (3) Analysis of the values, costs, and logic of the manners in which classes of people (e.g., criminals, drug abusers, the mentally ill) are defined as dangerous; analysis of the specific means of limiting their ability to harm others, the public order, or

themselves. Emphasis on imprisonment, institutionalization, probation, capital punishment, and enforced treatment. Usually offered every term. *Prerequisite for General Education credit:* 73.100 or 54.105.

73.205 History and Philosophy of Criminology /A, S (3) Development of theories of criminology and criminal justice over the course of history with special attention to the period from 1700 to the present. Review and evaluation of contemporary knowledge and theories of crime. Usually offered every term.

73.206 Social Justice and Deviant Behavior (3) Consideration of conformity and deviance in the light of broader issues of social justice (poverty, racism, sexism, alienation, etc.), of interactions between persons and groups that engage in and sanction deviance, of the role of ideology in the definition of deviance, and of the social policy consequences of deviance definition. Usually offered every fall.

73.210 Policing in America: An Introductory Survey /S (3) A survey of the history, development, environment, organization, and sociology of American law enforcement, with emphasis on state and local police agencies. Police as an agency of social control; police as a service agency; police as a part of government and of the justice system. Usually offered every fall.

73.211 Contemporary Issues in American Law Enforcement (3) Policy formulation; operational procedures; patrol; performance measurement; women and minorities in policing; labor-management relations; corruption; political accountability; use of force; citizen complaints. Usually offered every spring. *Prerequisite:* 73.210.

73.215 Violence and Institutions /S 4:2 (3) The capacity for violence by agents of an institution acting in service of organizational goals. Through evaluation of case studies, students gain an understanding of the dynamics of institutional violence and its threat to human life. Topics include: hazardous workplaces, unethical experimentation, dangerous products, torture and terrorism, police and prison use of deadly force, and the death penalty. Usually offered every term. *Prerequisite for General Education credit:* 73.100 or 57.105.

73.220 Cities and Crime /A 2:2 (3) Have crime and the urban environment always been linked? This course examines their relationship from biblical times to the present. Topics include: the criminal underworld in the eighteenth century; the emergence of juvenile delinquency following the industrial revolution; the literary imagination and mid-nineteenth century urban crime; and crime in developing countries. Usually offered every term. *Prerequisite for General Education credit:* 23.115 or 29.115 or 73.110. *Note:* not open for credit to students who have taken 00.300 Cities and Crime.

73.225 American Legal Culture /S 2:2 (3) The law has become one of the most important regulators in American culture. How did this happen? This course explores the transformation of American legal culture from the colonial era to the present, considering such issues as the challenges of crime, the Cold War and civil rights, the rise of the surveillance state, and images of law in popular culture. Usually offered every term. *Prerequisite for General Education credit:* 73.110 or 53.105 or 60.105.

73.230 Contemporary Corrections in the United States (3) Survey of current correctional thought and practices in the United States and their evolution. Overview of correctional treatment in different kinds of institutions and in the community. Usually offered every fall. *Prerequisite:* 73.210.

73.253 Juvenile Delinquency and Youth Crime (3) Development of the individual through childhood and adolescence as it relates to delinquency and crime; special characteristics of juvenile criminality; current principles, policies, and practices for its prevention and control. Factors producing delinquency. Juvenile detention, juvenile court, training schools, and treatment of the offender. Usually offered every fall.

73.300 Drugs and Society /S (3) Fundamental issues regarding drug use, human freedom, addiction, and treatment; the history of the opiates, especially heroin, in America and Britain; the role of law, enforcement, and treatment in dealing with opiate users in both countries. Usually offered every fall.

73.301 Drugs, Consciousness and Human Fulfillment (3) Positive approaches to achieving alternative states of consciousness with and without drugs; the nonaddictive use of addicting drugs; a balanced assessment of the latest findings on the dangers and benefits of the most widely used nonopiate recreational drugs, such as marijuana, tobacco, caffeine, alcohol, quaaludes, and cocaine; choices for individuals and society regarding the use and control of the substances. Usually offered every spring.

73.302 Alcoholism and Society (3) Analysis of alcoholics in terms of social forces that produce them. Cultural values, social pressures, response to the alcoholic by spouse, family, and legal systems, and the effects of such responses are examined using cross-cultural data. Usually offered every spring.

73.307 Justice and Law /A, S (3) The historical development, theory, principles, and content of criminal and civil law and their interrelationships; exploration of due process, rule of law, and the role of the Constitution in protecting rights and limiting the actions of both civil and criminal justice agencies. Usually offered every term.

73.308 Justice and Morality /A, S (3) Moral issues involved in administering justice in society, emphasizing the nature of human rights and the ideal of justice. Moral consequences of official control actions of lawmakers, justice system careerists, and others involved in the definition of crime and deprivation of liberty, stressing "moral offenses." Usually offered every term. *Prerequisite:* 60.105.

73.311 Introduction to Forensic Science (3) Scientific analysis and identification of evidence and documents, special police techniques, interpretation of medical reports, and preparation of reports. Usually offered every fall and spring.

73.313 Organized Crime (3) Organized crime in the United States; its effect on society and the need for integrated response by people, government, and business. Organized crime as a social subculture. Socioeconomic and political aspects of organized crime emphasizing internal controls and external relations with various political and economic sectors. Usually offered every term.

73.315 White-Collar and Commercial Crime (3) Economic and fiscal implications and enforcement problems. Fraudulent association, bankruptcy fraud, monopoly and coercive competitive practices, and illegal use of securities and credit cards. Problems of theoretical criminology presented by white-collar crime. Usually offered every fall and spring.

73.320 Criminal Procedure (3) Enforcement, investigation, pretrial procedure, trial procedure and sentencing, post-trial motions, appeals, reviews, and remedies. Police practices such as arrest, search and seizure, bail, preventive detention, and interrogation. Right to counsel, incompetency, and the insanity defense. Usually offered every fall. *Prerequisite:* 73.307.

73.321 Evidence (3) Rules of evidence applicable in criminal cases, including presumptions and inference; direct and circumstantial evidence; real evidence; testimonial knowledge and opinions evidence; character evidence; the hearsay rule and its exceptions; documentary evidence; confessions, admissions, and privilege against self-incrimination; illegally obtained evidence, witnesses; and former testimony. Usually offered every spring. *Prerequisite:* 73.307 and 73.320.

73.330 Institutional Corrections /S (3) Analysis of correctional processes in juvenile and adult institutions. Usually offered every fall.

73.331 Corrections in the Community (3) Probation and parole-supervision concepts, prerelease planning, caseload classification techniques, use of probation case-aides, and community and neighborhood treatment centers. Auxiliary services such as employment, mental health, and vocational counseling. Usually offered every spring.

73.340 Judicial Administration: Criminal (3) Management of criminal process to assure all constitutional rights. Administrative relationships of courts with agencies and individuals involved in criminal justice: defendants; police and criminal investigation agencies; prosecutors and defense counsel; bail agencies; probation officers; and correctional agencies. Grand jury and petit jury procedures. Protection of the integrity of judicial process. Usually offered every fall and spring.

73.341 Judicial Administration: Civil (3) Problems of civil litigation: personal injury, probate, small claims, and landlord and tenant relations. Protracted litigation. Devices for narrowing issues and expediting litigation. Alternatives for resolving disputes. Judicial management problems: record keeping, calendar management, and jury service. Administrative relationships of courts to other agencies and to the public. Usually offered every fall and spring.

73.352 Psychiatry and the Law /S (3) Basic psychiatric principles including contemporary views of causes, manifestations, patterns, and treatments of psychiatric and behavioral disorders; trends in the use of psychiatric resources to deal with deviant behavior within and without the criminal justice system. Topics include: incompetence as bar to trial, insanity as defense, civil commitment, drug addiction, alcoholism, psychiatry in processing and treat-

ing juvenile offenders, and rehabilitative efforts of the corrections system. Usually offered every term.

73.380 Introduction to Justice Research (3) Social research methods as applied to justice research. The function and role of justice research and the nature and form of research designs, methods, and tools. Usually offered every term. *Prerequisite:* 42.202 and junior standing.

73.382 Determination of Fact (3) An introduction to fact finding. Considers how necessary factual bases for administrative, managerial, legislative, and adjudicative decisions are established; discusses ethical strategies for using physical evidence, people, records, and files in proof; compares investigation, auditing, and scientific method; and uses examples from criminal, civil, juvenile, and military justice system design and operation problems. Usually offered every fall and spring.

73.390 Independent Reading Course in Justice (1-6)

73.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

73.411 Problems in Forensic Science (3) Examination of specific problems involving case studies of investigative techniques, practices, and procedures, with emphasis on scientific application thereto. Usually offered every spring. *Prerequisite:* 73.311.

73.420 Legal Reasoning (3) Students absorb scholars' and judges' descriptions of analysis and decision in law; practice legal reasoning themselves through analysis of appellate decisions, statutes, and the U.S. Constitution; study procedural and organizational components of the American legal system; and choose an area in which to concentrate and synthesize their learning by developing reasoned arguments. Usually offered every fall and spring.

73.431 The Prison Community (3) Social organization in correctional institutions. Inquiry into the nature, organization, and aims of the penal system and its effect on groups it deals with. Interaction of groups within institutions. Usually offered every spring.

73.450 Prevention of Crime and Delinquency (3) Concept of prevention, programs of prediction, sources of data on high delinquency and criminality areas, and community action projects as preventive services. Usually offered every spring.

73.454 Violence in America (3) Emphasis on various ideologies and events that cause or reduce violence, such as social movements, depressions, war, and political repression. Offered irregularly.

73.458 The Juvenile and the Law (3) Special legal status of the juvenile. Protective services, incompetence to enter contracts, compulsory education, child labor laws, and *in loco parentis* actions by state and private institutions. Juvenile and family court movement, emphasizing non-criminal aspects of administering juvenile justice; guardianship, dependency, neglect, child support, paternity, and adoption. Usually offered every fall.

73.463 The Free Press and the Administration of Justice (3) The constitutional guarantee of freedom of the press as it pertains to problems in administration of justice. Free press and law enforcement, fair trial, and correctional processes. Problems of administrative secrecy, national security, and right to privacy. Usually offered every spring.

73.490 Independent Study Project in Justice (1-6)

73.491 Internship in a Justice Setting (1-6) Provides students with actual experience in the administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and university instructors. Usually offered every term.

73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4) Classroom section of a double seminar. Each session covers a specific area in terms of theory and operational principles and explores the roles of all three branches of government in creating and operating justice systems in federations. Usually offered every fall and spring.

73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4) Laboratory section of a double seminar. Field visits with discussions led by agency personnel regarding the intergovernmental roles of their agencies and their place in justice systems. Theory and operational principles covered in 73.492. Usually offered every fall and spring.

Graduate and Advanced Undergraduate Courses

73.500 Moral Issues in Criminal Justice (3) Discussion and analysis of moral issues and their relationship to the criminal justice system. Offered irregularly.

73.501 The Concept of Justice (3) Major philosophical contributions to the definition of justice. The relationship of the ideal of justice to concrete situations in which issues of justice (civil, criminal, or political) arise. Usually offered every fall.

73.502 The Concept of Law (3) Major philosophical approaches to problems of meaning, function, and necessity of law in society. The concept of law is examined in its relationship to values, custom, power, social change, and social theory. Usually offered every spring.

73.503 Criminal Behavior: A Psychosocial Analysis (3) Examines various clinical and theoretical explanations for different types of criminal behavior including an analysis of the violent offender, the psychotic offender, the psychopathic offender, and the white-collar offender. Readings and other case-study material of actual criminal offenders are examined in order to develop an understanding of the causes and treatment. Offered irregularly.

73.504 Comparative Criminology and Criminal Justice (3) A comparative study of criminology and criminal justice systems as developed in the United States and elsewhere. Usually offered alternate springs.

73.517 Victimology (3) Victims as an integral part of crime. Theories and research results on the victim role, criminal-victim relationships, concepts of responsibility, and society's reaction to victimization. Sexual assault,

child abuse, and victimization of the elderly. Crisis-intervention centers, court-related victim/witness services, restitution, and compensation. Offered irregularly.

73.521 Law and the Mental Health System (3) Examines the interprofessional relationship between law and the mental health systems, including areas of conflict and close working relationships. Areas covered include standards for involuntary hospitalization, the role of the insanity defense, psychiatric liability, the rights of the mentally ill including the right to treatment and right to require treatment. Offered irregularly.

73.522 Crime and Public Policy (3) An examination of national and state policy issues that affect the definition of crime and the responses by executive and judicial branch agencies toward crime. Offered irregularly.

73.540 Police and the Political System (3) Police function as an instrument of public policy, particularly social and economic. Relationship of police to public and private agencies, constitutional and pragmatic limits on law enforcement, problems of federalism, police discretion and selective enforcement, minimum standards, community control, political feasibility, and due process as a necessity for ordered liberty. Offered irregularly.

73.541 The Police State (3) The theory and practice of the police state in comparative perspective. Authoritarian and antidemocratic aspects of police and other criminal justice agencies. Other agencies of social control in both democratic and nondemocratic settings. Democratic controls and human rights. Usually offered every spring.

73.550 Drugs, Crime, and Public Policy (3) Review of the history of drug abuse in America; the relationship between drug abuse and crime, including marijuana, heroin, and alcohol; national strategies to deal with drug abuse; improvement of policies in the future. Usually offered every fall.

73.551 Comparative Justice Studies (3-6) On-site review of theories and practices of crime and criminal justice systems of other countries, including crime, justice, and heroin in England; juvenile justice in England and America; comparative corrections; and administration of justice in England, Sweden, Denmark, and the Netherlands. Usually offered every summer.

73.552 Drug Abuse and the Law (3) Legal classifications of drugs in major federal and state statutes; the evolution of case law in the opinions of the U.S. Supreme Court and in state and local courts; controls on medical doctors regarding legitimate use of drugs in treating the addicted and the organically ill; the current law regarding possession, transportation, sale, entrapment, and search and seizure; and comparison with law of the United Kingdom. Usually offered every spring.

73.553 Drug Abuse Treatment (3) Various methods now in use in America and other countries for assisting persons having difficulties associated with the abuse of drugs, including narcotics, alcohol, marijuana, tranquilizers, and tobacco, among others. Clinical techniques and organizational methods. Offered irregularly. *Prerequisite:* 73.550.

73.590 Independent Reading Course in Justice (1-6)

Graduate Courses

73.600 Proseminar: Issues in Justice (3) Provides incoming graduate students with an overview of the interests and specialties of the School of Justice faculty. Faculty members lecture on such issues as American prisons, drug use and policy, law enforcement and social control, law and psychiatry, victimology, American courts, philosophies of justice, the institutions of justice, and the study of law as a behavioral science. Usually offered every fall.

73.604 Theoretical Issues in Justice (3) Consideration of the nature and sources of injustice, crime, and deviance; the variety of social control mechanisms including the legal system; the role of ideology; and the problems of legitimacy, authority, and responsibility of justice-system design and operation. Usually offered every spring.

73.606 Nature and Function of the American Legal System (3) Law as a discipline among disciplines. The nature and sources of legal systems, the operation of the legal system among related government and social systems, and legal systems from a sociological as well as from a traditional legal viewpoint. Usually offered alternate falls.

73.608 The Constitution and Criminal Procedure (3) Constitutional standards and operation of the criminal justice system. Police practices, bail, decision to prosecute, scope of prosecution, grand jury proceedings, preliminary hearings, right to counsel, right to speedy trial, plea bargaining, discovery and disclosure, jury trial, trial by newspaper, double jeopardy, and post-trial proceedings. Usually offered every spring.

73.609 The Political Basis of the Criminal Justice System (3) Criminal justice aspects of political systems. Actors in the system are considered in their political roles. Emphasis on policy making, political elites and community power, and interest articulation both within and outside formal governmental structure. Criminal and civil justice as sub-systems of the political system. Usually offered every spring.

73.612 White-Collar Crime in Government, Business, and Labor (3) Criminal frauds and deceptions and related behavior in government, business, labor, and other settings. Includes consumer fraud, stock market and other corporate crimes (including bribery), conflict of interest, and Watergate phenomena. Offered irregularly.

73.641 Management and Policy Issues in Law Enforcement (3) A systems approach to the issues of law-enforcement organization and management. Management principles, organizational structures, and analysis of policy issues stressing dynamics of policy development and implementation. Law-enforcement agencies as open and interacting systems in enacting legal policies. Offered irregularly.

73.642 Seminar on Contemporary Literature in Law Enforcement (3) Selected readings of recent books, articles from professional journals, government documents, and research reports. Offered irregularly.

73.660 Critical Issues in Judicial Administration (3) Policy analysis of problems of organization, structure, and management development in the judicial branch. The role of judicial branches in resolving conflict; the growth and

decay of institutions and processes in the judiciary; change-process analysis; and analysis of germane case law, statutes, and other materials. Usually offered every spring.

73.661 Complex Organizational Theory in Court Systems and Legal Organizations (3) Major theoretical perspectives on complex organizations; application of conceptual frameworks to organization and management problems of court systems, law offices, public and private, and other law-related institutions; development of managerial perceptions and philosophies. Usually offered every fall.

73.662 Court Management Practices (3) Applies specific management concepts and practices to court systems and other legal organizations. Review of literature relating to functions of court systems including finance, personnel, case-flow, jury, space, and information systems. Examination of specific organizational environments, development of management philosophy for the public sector, and role analysis. Usually offered every spring.

73.680 Introduction to Justice Research I (3) The logic of scientific inquiry and the nature and process of social research as applied to justice. Theory, concepts, practices, and the demonstration of their reliability and validity. Attention is also given to methods of sampling design and techniques of data collection. Usually offered every fall.

73.681 Introduction to Justice Research II (3) Methods of data analysis applicable to research in the justice field. Building on the concepts presented in 73.680, the course examines the link between research design and empirical analysis, the role of probability in hypothesis testing, and the concept and techniques of descriptive and inferential statistics. Usually offered every spring. *Prerequisite:* 73.680.

73.683 Institutional Corrections (3) Correctional institutions and their functions. Topics include: prisons as total institutions; characteristics of various kinds of correctional facilities; problems of rehabilitation; analysis of prison communities; patterns of adjustment to prison life among inmates and staff; and the effects of institutionalization of offenders. Usually offered every fall.

73.684 Community Corrections (3) The utility of treating selected offenders outside the institutional setting. Theory and practice of probation, parole, half-way houses, and experimental programs. Emphasis on understanding the legal, philosophical, and decision-making processes affecting the implementation of community corrections. Usually offered every fall.

73.685 Juvenile Corrections (3) The basic premises of the system of corrections that attempts to control and treat the juvenile offender. Sources of delinquent behavior as they relate to system responses to the phenomenon. Recent trends in the juvenile system are contrasted with traditional procedures. Usually offered every spring.

73.690 Independent Study Project in Justice (1-6)

73.691 Internship in a Justice Setting (1-6) Provides students with experience in administering justice in operational or research settings through assignment to legislative, regulatory, planning, police, judicial, or correctional

agencies under joint agency/school supervision that includes faculty evaluation of ongoing written reports. Usually offered every term.

73.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

English Language Institute

Note: The following courses (below the 200 level) are not offered for academic credit towards graduation. Values in parentheses indicate credit equivalents only for the purpose of determining full-time student status.

74.010 English I: Basic Intensive English (0) An intensive course in basic English as a second language intended for students with little or no command of English. Emphasis is on listening and speaking skills necessary for essential communication, and on building a basic foundation in grammar. Enrollment in 74.010 constitutes full-time study. Offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

74.020 Grammatical Analysis II (4) A low intermediate course in English grammar intended for students with a basic command of English. Emphasis is on variations of basic sentence patterns. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.010.

74.022 Reading Skills II (4) A low intermediate course in basic reading skills in English as a second language; intended for students with a basic command of English. Emphasis is on understanding written English and on vocabulary development. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.010.

74.024 Writing Skills II (4) A low intermediate course in English as a second language. Emphasis is on developing basic mechanics and conventions of written English through controlled writing exercises and activities. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.010.

74.026 Listening and Speaking Skills II (4) A low intermediate course in English as a second language. Emphasis is on improving pronunciation, conversation ability and listening comprehension skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.010.

74.030 Grammatical Analysis III (4) An intermediate course in English as a second language. Emphasis is on mastering verb tenses and structures of modification. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.020.

74.032 Reading Skills III (4) An intermediate course in English as a second language. Emphasis is on comprehen-

sion of main ideas and supporting details, organization of texts, and vocabulary expansion. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.022.

74.034 Writing Skills III (4) An intermediate course in English as a second language. Emphasis is on moving from controlled writing to accurate free writing of expanded sentence patterns. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.024.

74.036 Listening and Speaking Skills III (4) An intermediate course in English as a second language. Emphasis is on improving conversational listening and speaking skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.026.

74.037 Study Skills I (0) An intermediate-level course providing instructions and practice in a variety of essential language and study skills. Topics, which vary by section, include spelling, pronunciation, increasing reading speed, and orientation to American academic culture. May be repeated within the same term; topic may be the same. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.038 Integrated Skills I (0) An intermediate-level course that provides students with an opportunity to develop their English proficiency by practicing their skills in the study of a particular content area. Topics, which vary by section, are related to current events, American culture, and comparative culture. May be repeated within the same term; topic may be the same. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.040 Grammatical Analysis IV (4) A high intermediate course in English as a second language. Emphasis is on the complex grammatical structures characteristic of academic language. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.030.

74.042 Reading Skills IV (4) A high intermediate course in English as a second language. Emphasis is on increasing reading speed and comprehension and on word study. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.032.

74.044 Writing Skills IV (4) A high intermediate course in English as a second language. Emphasis is on mastery of paragraph development and proofreading. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.034.

74.046 Listening and Speaking Skills IV (4) A high intermediate course in English as a second language. Emphasis is on comprehension of academic discourse and extended oral production. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:*

admission by placement test or successful completion of 74.036.

74.047 Study Skills II (0) A high intermediate course that provides instruction and practice in a variety of essential language skills and study skills. Topics include library orientation, classroom culture, time management, making oral presentations, increasing reading speed, and orientation to the resources of Washington, D.C. May be repeated within the same term; topic may be the same. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.048 Integrated Skills II (0) An intermediate-level course that provides students with an opportunity to develop their English proficiency by practicing their skills in the study of a particular content area. Topics, which vary by section, are related to current events, American culture, and comparative culture. May be repeated within the same term; topic may be the same. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.049 English for Specific Majors (0) Preparation for the reading and discussion skills critical for success in specific majors. Topics, which vary by section and semester, include vocabulary and basic concepts in computer science, business and economics, international legal studies, and public administration. May be repeated within the same term; topic may be the same. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELI.

74.050 Reading and Text Analysis (4) An advanced course in English as a second language. Emphasis is on analytical reading and improving academic study skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.042.

74.051 Composition Skills and Grammar Review (4) An advanced course in English as a second language. Emphasis is on essay writing and error analysis. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.040 and 74.044.

74.080 English Workshop (3) Review course emphasizing fundamentals of grammar necessary for the improvement of writing skills. Does not fulfill the university English requirement. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by ELI recommendation only.

Graduate Courses

74.098 Graduate Writing Seminar (0) Restricted to graduate international students. Emphasis on library and research techniques and on writing a research paper. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or departmental recommendation.

University English Requirement

Note: The following courses carry academic credit towards graduation as indicated.

74.200 College Reading and Writing I (3) An advanced course in reading and composition for international students whose competence in English qualifies them to take academic courses without special English. Emphasis is on academic reading and writing tasks, with attention to the residual language problems of nonnative speakers. Fulfills the first half of the university English requirement and the university competency requirement. (See also College Writing and English Competency under University Requirements in the Undergraduate Study section of this publication.) Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.050 and 74.051 or 74.080.

74.201 College Reading and Writing II (3) A continuation of 74.200; emphasis on library and research techniques, including the writing of a research paper. Completes the university college writing requirement. (See also College Writing and English Competency under University Requirements in the Undergraduate Study section of this publication.) Usually offered every term. *Prerequisite:* 74.200.

74.280 College Writing Skills Workshop (3) For advanced students of English as a second language. Emphasis is on writing summaries and syntheses of materials drawn from a wide range of subject areas. Fulfills the university English competency requirement for transfer students. (See also College Writing and English Competency under University Requirements in the Undergraduate Study section of this publication.) Usually offered every term. *Prerequisite:* permission of instructor.

74.290 Independent Reading (3)

Interdisciplinary Studies

Undergraduate Courses

75.490 Independent Study Project in Interdisciplinary Studies (1-6) Usually offered every term.

75.491 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

Graduate and Advanced Undergraduate Courses

75.501 Integrated Seminar on Russia (3) A team-taught, interdisciplinary seminar, designed to provide a sense of cohesion through a coordinated approach. Emphasis on complex current problems facing the Soviet Union, both at home and abroad, with attention to their interrelationship and historical background. Usually offered every spring. *Prerequisite:* one course in Russian studies.

75.590 Independent Reading Course in Interdisciplinary Studies (1-6)

Graduate Courses

75.690 Independent Study Project in Interdisciplinary Studies (1-6)

75.691 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

Women's Studies

Undergraduate Courses

76.150 Women's Voices through Time /A 2:1 (3) The distinctive contributions of women to Western artistic and intellectual traditions. Significant articulations of human experience expressed by women through literature, art, and history; how such traditions became established and how women, despite obstacles, have produced lasting works of ideas and imagination. Usually offered every spring. *Note:* not open to students who have taken 07.307/607 Women in Art.

76.250 The Social Reality of Women /S 4:2 (3) Women as an under-represented category in the understanding of social institutions and behavior. An interdisciplinary approach offers diverse theories concerning the female gender. Emphasis on psychological development and on the impact of the family, government, law, and the workplace on the position of women in past and contemporary American life. Usually offered every fall and alternate springs. *Prerequisite for General Education credit:* 03.150 or 57.105. *Note:* not open to students who have taken 76.250 Perspectives on Women.

76.350 Interpreting Women in Culture (3) An exploration of diverse aspects of women's cultural situation from different disciplinary perspectives. Rotating topics focus on specific subjects, integrating recent scholarship and interdisciplinary contexts. Representative topics: Sisters and Brothers/Husbands and Wives, Women and the Performing Arts, Women and Men in American Culture. May be repeated for credit, but not in the same term; topic must be different. Usually offered every spring.

76.491 Internship in Women's Studies (1-6) Usually offered every term. *Prerequisite:* 76.250.

Study Abroad

92.300 Copenhagen Semester (1-3) In cooperation with the Denmark's International Study Program at the University of Copenhagen, students may take courses in liberal arts or international business. These courses, taught by European professors, are supplemented by extensive field trips. Usually offered every term. *Prerequisite:* consult the World Capitals Program Office.

93.495 Semester in Beijing (1-6) Students have the opportunity to take specific courses at the University of International Business and Economics in Beijing, China. All participants must take intensive Chinese language (Mandarin). Courses in Chinese Economic Cooperation, History and Culture, and an independent study project supervised by the resident professor are offered. Usually offered every fall. *Prerequisite:* consult the World Capitals Program Office.

94.300 Study Abroad in Poland (3-6) In cooperation with The Adam Mickiewicz University in Poznan, students may take courses in liberal arts and modern languages. Six credit hours of Polish language is compulsory for all participants. These courses are taught in English by European professors at the university's Institute of English. Usually offered every term. *Prerequisite:* consult the World Capitals Program Office.

95.390 Study Abroad: Independent Reading (3-6) An opportunity to do an independent reading course under faculty supervision while attending a study abroad program. Usually offered every term. *Prerequisite:* consult the World Capitals Program Office.

95.400 Semester in Paris (3-6) The American University Program in Paris, in cooperation with the Via Paris Program, offers courses in French language and liberal arts. Students are placed in various Parisian universities based on their language skills and areas of study. May be repeated for credit but not within the same term; topic may be the same. Usually offered every term. *Prerequisite:* junior standing with at least a 3.0 GPA; two years of college French or equivalent.

95.490 Study Abroad: Independent Study (3-6) Usually offered every term. *Prerequisite:* consult the World Capitals Program Office.

1990-1991 Full-Time Faculty

The faculty list below covers the 1990-1991 academic year only.

The date in parentheses following each name is the year in which that faculty member was appointed to the full-time faculty. * Asterisk indicates department chair or director.

Aaronson, David E. (1977), B.A., M.A., Ph.D., The George Washington University; LL.B., Harvard University; LL.M., Georgetown University; Professor of Law.

Abbravanel, Evelyn G. (1977), B.A., J.D., Case Western Reserve University; Professor of Law.

Agular, Adolfo (1988), B.A., El Colegio de Mexico; M.P.A., Harvard University; Associate Professor of International Service.

Ahrens, Anthony H. (1987), B.A., Northwestern University; Ph.D., Stanford University; Assistant Professor of Psychology.

Aldridge, Mary H. (1955), B.S., University of Georgia; M.A., Duke University; Ph.D., Georgetown University; Professor Emerita of Chemistry.

Alexander III, Elmore R. (1989), B.A., Wake Forest University; M.A., Ph.D., University of Georgia; Professor of Management.*

Alkhatib, Ghazi (1990), B.S., University of Jordan; M.B.A., Central Missouri State University; D.B.A., Mississippi State University; Assistant Professor of Management.

Alleyn, Mark (1990), B.A., Howard University; M.A., Oxford University; Instructor of International Service.

Anderson, Frederick R., Jr. (1985), B.A., University of North Carolina; B.A., Oxford University; J.D., Harvard Law School; Professor of Law.

Anderson, Laird B. (1973), B.S., Florida State University; M.A., The American University; Professor of Communication.

Anthony, Carl G. (1961), B.A., University of Chicago; M.A., Ph.D., Harvard University; Professor Emeritus of History.

Armstrong, Scott R. (1990), B.A., Yale University; Visiting Scholar of Communication.

Arnold, Steven H. (1970), B.A., Occidental College; M.A., Ph.D., Johns Hopkins University; Associate Professor of International Service.

Audain, Linz (1989), B.A., Southern College; M.B.A., M.A., University of Miami; M.S.M., Florida International University; J.D., University of Chicago; Ph.D., Duke University; Assistant Professor of Law.

Aufferdeide, Patricia (1988), B.A., M.A., Ph.D., University of Minnesota; Assistant Professor of Communication.

Awartani, Faisal (1988), B.A., Birzeit University, West Bank; M.A., The American University; Instructor of Mathematics and Statistics.

Ayittey, George (1990), B.S., University of Ghana; M.A., University of Western Ontario; Ph.D., University of Manitoba; Visiting Associate Professor of Economics.

Bagranoff, Nancy A. (1987), A.A., Briarcliff College; B.S., The Ohio State University; M.S., Syracuse University; D.B.A., The George Washington University; C.P.A.; Assistant Professor of Business Administration.

Ballay, Jessica M. (1981), B.S., M.Ed., Coppin State College; M.B.A., Ph.D., University of Missouri; Assistant Professor of Business Administration.

Bailey, K. Edwin (1990), M.B.A., B.S.B.A., Louisiana State University; Ph.D., University of North Carolina; C.P.A.; Associate Professor of Accounting.

Baker, H. Kent (1975), B.S.B.A., Georgetown University; M.B.A., D.B.A., M.Ed., University of Maryland; M.A., M.S.,

Ph.D., and Ph.D., The American University; C.F.A. and C.M.A.; Professor of Business Administration.*

Baker, Kenneth (1966), B.A., M.A., University of Kansas; Associate Professor Emeritus of Performing Arts.

Baker, Isalah (1979), B.A., Yale University; M.B.A., J.D., Columbia University; M.A., De Paul University; LL.M., Harvard University; Associate Professor of Law.

Banta, William C. (1970), B.A., University of California, Berkeley; Ph.D., University of Southern California; Professor of Biology.

Baranovic, Boris I. (1966), B.A., Amherst College; M.F.A., Yale University; Associate Professor of Performing Arts.

Baron, Naomi S. (1987), B.A., Brandeis University; Ph.D., Stanford University; Professor of Language and Foreign Studies and Associate Dean of the College of Arts and Sciences.

Barron, Austin M. (1971), B.S., City College of New York; M.S., Ph.D., Purdue University; Associate Professor of Mathematics and Statistics and Associate Dean of the College of Arts and Sciences.

Bartfield, Charles I. (1966), M.B.A., Ph.D., Columbia University; Professor of Business Administration.

Bassler, Richard A. (1969), B.S., University of Colorado; M.S., The George Washington University; Ph.D., Laurence University; Professor Emeritus of Computer Science and Information Systems.

Batchelder, Merritt C. (1935), B.A., Hillsdale College; M.A., Columbia University; Ph.D., Iowa State University; Professor Emeritus of Literature.

Bean, Arthur P., Jr. (1963), B.A., M.A., University of Virginia; M.S., The Catholic University of America; Associate Professor Emeritus of Literature.

Beck, Audrie (1988), A.A., Essex Community College; B.S., Towson State University; M.P.A., Loyola College; C.P.A., State of Maryland; Instructor of Business Administration.

Becker, Shirley (1989), B.S., M.B.A., St. Cloud State University; M.S., Ph.D., University of Maryland; Assistant Professor of Computer Science and Information Systems.

Belanger, Robert L. (1965), M.A., Ph.D., University of Chicago; Professor of History.

Benjamin, John (1990), B.A., University of North Carolina; M.S., University of Houston; Ph.D., Louisiana State University; Assistant Professor of Finance.

Bennett, Betty T. (1985), B.A., Brooklyn College; M.A., Ph.D., New York University; Professor of Literature and Dean of the College of Arts and Sciences.

Bennett, Richard R. (1979), B.A., Randolph-Macon College; M.A., Florida State University; Ph.D., Washington State College; Associate Professor of Justice.

Bennett, Susan D. (1984), B.A., Yale University; J.D., Columbia University; M.A., Yale University; Associate Professor of Law.

Berendzen, Richard (1974), B.S., Massachusetts Institute of Technology; M.A., Ph.D., Harvard University; Professor of Physics.

Bergin, Thomas J. (1982), B.A., University of Maryland; M.A., Ph.D., The American University; Associate Professor of Computer Science and Information Systems.

Bergmann, Barbara R. (1988), B.A., Cornell University; M.A., Ph.D., Harvard University; Distinguished Professor of Economics.

Berman, Alan L. (1969), B.A., The Johns Hopkins University; Ph.D., The Catholic University of America; Professor of Psychology.

Betts, Madeleine (1969), B.A., M.A., Université d'Ottawa; Ph.D., University of Illinois; Associate Professor Emerita of Language and Foreign Studies.

Bidderman Albert D. (1986), A.B., University of New York; M.A., Ph.D., University of Chicago; Research Professor of Justice.

Biles, George E. (1976), A.A., Northern Virginia Community College; B.S., U.S. Naval Academy; A.M., The George

- Washington University; M.A., The American University; Ph.D., The Ohio State University; A.P.D., C.C.P.; Professor of Business Administration.
- Blecker, Robert A.** (1985), B.A., Yale University; M.A., Ph.D. Stanford University; Assistant Professor of Economics.
- Bliss, Edward Lydston** (1968), B.A., Yale University; Professor Emeritus of Communication.
- Blum, Annabelle M.** (1966), B.S., University of Wisconsin; M.A., Ph.D., University of Chicago; Professor Emerita of Sociology.
- Blum, Joseph** (1965), B.S., City College of New York; A.M., Ph.D., The George Washington University; Professor Emeritus of Mathematics and Statistics.
- Bodine, John J.** (1968), B.A., University of Oklahoma; M.A., Ph.D., Tulane University; Professor of Anthropology.
- Bonafede, Dom** (1985), B.Litt., Rutgers State University; Assistant Professor of Communication.
- Bonham, G. Matthew** (1972), B.A., Northwestern University; Ph.D., Massachusetts Institute of Technology; Professor of Government and Public Administration and International Service.*
- Borkovec, Vera Z.** (1966), undergraduate degree, Charles University, Prague, Czechoslovakia; M.A., Hollins College; M.A., The American University; Ph.D., Georgetown University; Associate Professor of Language and Foreign Studies.
- Bowles, W. Donald** (1957), B.A., University of Washington; M.A., Ph.D., Columbia University; Professor of Economics.
- Boyle, James, D. A.** (1982), LL.B., Glasgow University; S.J.D., LL.M., Harvard Law School; Professor of Law.
- Boynton, Robert P.** (1969), A.B., Calvin College; A.M., Ph.D., University of Michigan; Professor of Government and Public Administration.
- Brabancki, Lothar** (1957), M.F.A., Berlin Academy of Fine Arts; Associate Professor Emeritus of Art.
- Bracey, Dorothy** (1990), A.B., The College of William and Mary; M.S.L., Yale University; Ph.D., Harvard University; Distinguished Scholar-in-Residence of Justice, Law and Society.
- Bradlow, Daniel** (1989), B.A., University of Witwatersrand; J.D., Northeastern University; M.L.I.C., Georgetown University; Assistant Professor of Law.
- Braithwaite, Jeanine** (1991), B.A., University of Virginia; M.A., Georgetown University; Ph.D., Duke University; Assistant Professor of Economics.
- Brasher, C. Nielson** (1988), B.A., M.A., University of Colorado; Ph.D., The American University; Assistant Professor of International Service in the Washington Semester Program.
- Breitman, Richard David** (1976), B.A., Yale College; M.A., Ph.D., Harvard University; Professor of History.
- Brennan, Louise** (1990), B.A., Middlebury College; M.A., University of Virginia; Instructor of Literature.
- Brenner, Donald R.** (1971), B.S., J.D., The Ohio State University; Professor of Business Administration.
- Brenner, Philip J.** (1981), B.A., Columbia University; M.A., Ph.D., The Johns Hopkins University; Associate Professor of International Service.*
- Breyere, Edward J.** (1961), B.S., M.S., Ph.D., University of Maryland; Professor Emeritus of Biology.
- Broad, Robin** (1990), B.A., Williams College; Ph.D., Princeton University; Assistant Professor of International Service.
- Broder, Ivy** (1975), B.A., Hunter College; M.A., Ph.D., State University of New York at Stony Brook; Associate Professor of Economics.
- Broude, Norma** (1975), A.B., Hunter College; M.A., Ph.D., Columbia University; Professor of Art.
- Brown, Roger H.** (1965), B.A., M.A., Ph.D., Harvard University; Professor of History.*
- Brownlee, Thomas** (1990), B.S., University of Illinois; Ph.D., University of Rochester; Chemist in Residence.
- Bulmash, Gary F.** (1975), B.S., M.B.A., D.B.A., University of Maryland; C.P.A.; Associate Professor of Business Administration.
- Bunch, Beverly** (1990), B.A., University of Illinois; M.A., Syracuse University; Ph.D., Carnegie Mellon University; Assistant Professor of Public Administration.
- Burch, Kurt** (1990), B.A., George Mason University; M.A., The American University; Instructor of International Service.
- Burhoe, Sumner O.** (1956), B.S., University of Massachusetts; M.S., Kansas State University; Ph.D., Harvard University; University Professor Emeritus of Biology.
- Burkart, Edward I.** (1962), B.S., M.S., Georgetown University; Ph.D., University of Pennsylvania; Professor Emeritus of Language and Foreign Studies.
- Burkart, Grace Stovall** (1960), A.B., Cornell University; M.A., The American University; Ph.D., Georgetown University; Professor Emeritus of Language and Foreign Studies.
- Burke, D. Barlow, Jr.** (1970), A.B., Harvard College; LL.B., M.C.P., University of Pennsylvania; LL.M., S.J.D., Yale University; Professor of Law.
- Burkhart, Geoffrey** (1968), B.A. Oakland University; Ph.D. University of Rochester; Associate Professor of Anthropology.
- Burna, Kirk L.** (1968), B.S., U.S. Naval Academy; M.A., University of Washington; Ph.D., University of Paris; Professor Emeritus of Computer Science and Information Systems.
- Burns, Margie** (1990), B.A., Ph.D., Rice University; Assistant Professor of Literature.
- Burr, Samuel Engle, Jr.** (1947), Litt.B., Rutgers State University; M.A., University of Wisconsin; M.A., Columbia University; Ed.D., University of Cincinnati; Professor Emeritus of Education.
- Butts, James R.** (1964), B.S., Virginia Polytechnic Institute and State University; M.S., New York University; Associate Professor of Business Administration.
- Callen, Earl R.** (1968), A.B., M.A., University of Pennsylvania; Ph.D., Massachusetts Institute of Technology; Professor Emeritus of Physics.
- Campanelli, Linda** (1989), B.Sc., Concordia University; M.A., Ph.D., University of Maryland; Assistant Professor of Health and Fitness.
- Cannon, Thomas F., Jr.** (1972), A.B., A.M., Boston College; Ph.D., University of Virginia; Assistant Professor of Literature.
- Cantor, Muriel G.** (1968), B.A., M.A., Ph.D., University of California, Los Angeles; Professor of Sociology.
- Cantrell, Thomas S.** (1971), B.S., M.S., University of South Carolina; Ph.D., The Ohio State University; Associate Professor of Chemistry.
- Cao, Andrew D.** (1976), B.S., Indiana University; M.B.A., The American University; D.B.A., The George Washington University; Associate Professor of Business Administration.
- Carson, Frederick W.** (1970), B.S., Massachusetts Institute of Technology; M.A., Washington University; Ph.D., University of Chicago; Associate Professor of Chemistry.
- Casey, Stephen D.** (1988), B.A., Drew University; Ph.D., University of Maryland; Assistant Professor of Mathematics and Statistics.
- Chambless, Dianne L.** (1982), B.A., Newcomb College of Tulane University; M.A., Ph.D., Temple University; Associate Professor of Psychology.
- Chang, I-Lok** (1970), B.S., California Institute of Technology; Ph.D., Cornell University; Associate Professor of Mathematics and Statistics.
- Charbonneau, Marie A.** (1960), B.A., M.A., University of Paris; Etudes Pratiques d'Anglais, Sorbonne; Associate Professor Emerita of Language and Foreign Studies.
- Chavkin, David F.** (1990), B.S., Michigan State University; J.D., University of California; Assistant Professor of Law.
- Cheb, Albert Mel-chu** (1980), B.A., Columbia College; Ph.D., University of California at Berkeley; Associate Professor of Chemistry.

- Cheru, Fantu** (1984), B.A., Colorado College; M.S., Ph.D., Portland State University; Assistant Professor of International Service.
- Child, Jack** (1982), B.E., Yale University; M.A., Ph.D., The American University; Professor of Language and Foreign Studies.
- Chinnin, Robert J.** (1964), B.S., East Carolina University; M.Ed., University of North Carolina; Ed.D., University of Maryland; Associate Professor of Biology.
- Chow, Esther Ngan L.** (1973), B.S., Chinese University of Hong Kong; M.S., Southern Illinois University; M.S., Ph.D., University of California, Los Angeles; Professor of Sociology.
- Chow, Ida** (1988), B.S., Escola Paulista de Medicina, Brazil; M.S., Ph.D., McGill University; Assistant Professor of Biology.
- Clark, Charles M.** (1941), A.B., M.A., Ph.D., Cornell University; Professor Emeritus of Literature.
- Clark, Leon E.** (1981), B.A., M.A.T., Yale University; Ed.D., University of Massachusetts; Associate Professor of Education.
- Clarke, Barbara J.** (1974), B.A., M.S., University of Maine; Ph.D., Tulane University; Associate Professor of Biology.
- Clarke, Duncan L.** (1970), A.B., Clark University; J.D., Cornell University; Ph.D., University of Virginia; Professor of International Service.
- Cleary, Robert E.** (1965), B.A., M.A., Montclair State College; M.A., Ph.D., Rutgers State University; Professor of Government and Public Administration.
- Cohen, Stephen D.** (1975), B.A., The American University; M.A., Syracuse University; Ph.D., The American University; Professor of International Service.
- Connolly, Frank W.** (1982), B.A., University of Scranton; M.S., The George Washington University; Ph.D., The American University; Associate Professor of Computer Science and Information Systems.
- Conway, Kevin M.** (1989), B.S., Miami University; Ph.D., The Johns Hopkins University; Assistant Professor of Biology.
- Corr, John B.** (1986), B.A., M.A., John Carroll University; Ph.D., Kent State University; J.D., Georgetown Law Center; Professor of Law.
- Côté, Paul Raymond** (1985), B.A., College of The Holy Cross; M.A., Middlebury Graduate School; Ph.D., McGill University; Assistant Professor of Language and Foreign Studies.
- Coward, Billy G.** (1964), B.S., B.A., M.A., The American University; Associate Professor of Health and Fitness.
- Cromwell, William C.** (1962), B.A., Emory University; M.A., Ph.D., The American University; Professor of International Service.
- Crone, Lawrence J.** (1984), B.A., Ph.D., The Catholic University of America; Associate Professor of Computer Science and Information Systems.
- Crooks, Alan** (1991), A.B., The College of Idaho; M.A., Utah State University; Ph.D., University of Utah; Assistant Professor of Literature.
- Crosby, David S.** (1966), B.A., The American University; M.A., Ph.D., University of Arizona; Professor of Mathematics and Statistics.
- Crosslin, Robert** (1990), B.S., University of Tulsa; M.A., Ph.D., University of Missouri; Assistant Professor of Computer Science and Information Systems.
- Crowder, Charles F.** (1967), B.M., Lawrence College; M.A., Columbia University; Professor of Performing Arts.
- Cruse-Saunders, Carol** (1990), B.A., Dickinson College; M.A., Middlebury College; Instructor of Language and Foreign Studies.
- Cubberly, Elizabeth P.** (1952), LL.B., The American University; Professor Emerita of Law.
- Culver, David C.** (1987), B.A., Grinnell College; Ph.D., Yale University; Professor of Biology.*
- Davis, Harold E.** (1947), B.A., Hiram College; M.A., University of Chicago; Ph.D., Case Western Reserve University; University Professor Emeritus of History and International Service.
- Davis, Susan L.** (1988), B.A., University of South Carolina; M.F.A., George Mason University; Writing Instructor-in-Residence.
- Deeb, Mary Jane** (1989), B.A., M.A., American University, Cairo; Ph.D., John Hopkins University; Assistant Professor of Government.
- Degregorio, Christine A.** (1988), B.A., University of Maryland; M.S.P., Boston College; Ph.D., University of Rochester; Assistant Professor of Government.
- DeLone, William H.** (1986), B.S., Villanova University; M.S., Carnegie-Mellon University; Ph.D., University of California, Los Angeles; Assistant Professor of Business Administration.
- Delong, Earl H.** (1963), B.S., M.A., Ph.D., Northwestern University; Professor and Dean Emeritus of Government and Public Administration.
- Dernburg, Thomas F.** (1975), B.A., Swarthmore College; M.A., Ph.D., Yale University; Professor of Economics.
- Dhillon, Gita L.** (1966), B.Sc., Christian Medical College Hospital; M.Ed., Columbia University; Associate Professor Emeritus of Nursing.
- DiBacco, Thomas V.** (1965), B.A., Rollins College; M.A., Ph.D., The American University; Professor of Business Administration.
- Dickerson, Bette** (1990), B.A., Morehead State University; M.Ed., University of Louisville; Ph.D., Washington State University; Assistant Professor of Sociology.
- Diggs-Brown, Barbara** (1989), B.A., Howard University; M.A., The American University; Assistant Professor of Communication.
- Dinerstein, Robert D.** (1983), A.B., Cornell University; J.D., Yale Law School; Professor of Law.*
- Doolittle, John** (1980), B.S., Northwestern University; M.A., University of Georgia; Ph.D., University of Wisconsin-Madison; Associate Professor of Communication.
- Douglass, John S.** (1978), B.A., M.A., The American University; Associate Professor of Communication.
- Dubois, Frank L.** (1988), B.A., Virginia Polytechnic Institute and State University; M.B.A., Old Dominion University; Ph.D., University of Southern California; Assistant Professor of Business Administration.
- Durfee, Harold A.** (1955), Ph.B., University of Vermont, B.D., Yale University, Ph.D., Columbia University; Professor Emeritus of Philosophy and Religion.
- Dwinell, Harriet** (1990), B.A., Duke University; M.A., The American University; Instructor of Literature.
- Edelman, Richard B.** (1983), B.S., M.B.A., D.B.A., University of Maryland; C.P.A.; Professor of Business Administration.
- El Khadem, Hassan S.** (1984), B.Sc., Cairo University; D.Sc.Tech., E.T.H. Zurich; D.Sc., University of Alexandria; D.Sc., University of London; Ph.D., Imperial College; Professor of Chemistry and Horace and May Isbell Chair in Natural Products Chemistry.
- Enayet, Ali** (1987), B.S., Iowa State University; M.A., Ph.D., University of Wisconsin-Madison; Assistant Professor of Mathematics and Statistics.
- Eno, Irene W.** (1961), Certificate, Sackers School of Design; Professor Emerita of Art.
- Ensign, Margaret** (1989), B.A., New College; M.A., Ph.D., University of Maryland; Visiting Assistant Professor of International Service.
- Ernoult, Bernadette** (1990), B.A., M.A., University of Paris; M.A., The American University; Instructor of Language and Foreign Studies.
- Esselman, Mary** (1990), B.A., M.A., Georgetown University; Instructor of Literature.
- Eestman, Barbara** (1990), B.A., St. Louis University; M.F.A., George Mason University; Instructor of Literature.
- Estes, Ralph** (1990), B.S., M.B.A., University of Kentucky; D.B.A., Indiana University; C.P.A.; Professor of Accounting.

- Fantle, Bryan D.** (1989), D.E.C., Dawson College; B.A., Concordia University; M.A., Ph.D., Dalhousie University; Assistant Professor of Psychology.
- Farer, Tom J.** (1987), B.A., Princeton University; J.D., Harvard Law School; Professor of International Service and Professor of Law.
- Farquhar, Katherine** (1989), B.A., Wellesley College; M.A.T., Harvard University; M.A., Ph.D., Boston University; Assistant Professor of Public Administration.
- Farsoun, Samih K.** (1973), A.B., Hamilton College; M.A., Ph.D., University of Connecticut; Associate Professor of Sociology.*
- Farzin, Hossein** (1991), B.Phil., Ph.D., Oxford University; Associate Professor of Economics.
- Feinberg, Robert M.** (1989), B.A., University of Pennsylvania; Ph.D., University of Virginia; Associate Professor of Economics.
- Ferren, Ann S.** (1985), A.B., Radcliffe College; M.A.T., Harvard Graduate School of Education; Ed.D., Boston University; Associate Professor of Education and Assistant Provost for Academic Development.
- Finan, John J.** (1961), A.B., A.M., Washington University; Ph.D., Harvard University; Professor of International Service.
- Fisher, Jeff** (1979), B.A., M.A., San Diego State College; Ph.D., University of California, Los Angeles; Professor of Government and Public Administration.
- Flanders, Bruce** (1989), B.S., Rensselaer Polytechnic Institute; M.S., Indiana University; Ph.D., Kent State University; Assistant Professor of Physics.
- Floro, Maria Sagrario** (1988), B.S., University of Philippines; M.A., Monash University, Australia; Ph.D., Stanford University; Assistant Professor of Economics.
- Flournoy, Nancy** (1988), B.S., M.S., University of California, Los Angeles; Ph.D., University of Washington; Associate Professor of Mathematics and Statistics.
- Folbre, Nancy** (1991), B.A., M.A., University of Texas; Ph.D., University of Massachusetts; Visiting Associate Professor of Economics.
- Foley, Robert T.** (1967), B.S., University of Massachusetts; M.S., Lafayette College; Ph.D., University of Texas; Professor Emeritus of Chemistry.
- Fong, Daniel** (1988), B.A., University of California, Berkeley; M.S., University of Oklahoma; Ph.D., Northwestern University; Assistant Professor of Biology.
- Forbes, Calvin L.** (1989), B.A., M.F.A., Brown University; Visiting Instructor of Literature.
- Ford, Gary T.** (1985), B.B.A., Clarkson College of Technology; M.B.A., Ph.D., State University of New York, Buffalo; Professor of Business Administration.*
- Foreman, Christopher H.** (1988), B.A., M.A., Ph.D., Harvard University; Assistant Professor of Government.
- Fosen, Robert H.** (1989), A.B., California State University, Chico; M.S., Ph.D., Cornell University; Distinguished Scholar in Residence of Justice.
- Fox, Richard H.** (1970), A.B., Northwestern University; Ph.D., University of Hawaii; Associate Professor of Biology.
- Fox, Robert P.** (1971), B.S., M.S., Georgetown University; Ph.D., University of Illinois; Professor of Language and Foreign Studies.
- Fox-Genovese, Elizabeth** (1991), M.A., Ph.D., Harvard University; Visiting Scholar in Residence of History.
- Frailey, Robert H.** (1949), B.S., M.A., The American University; Professor Emeritus of Health and Fitness.
- Frame, Michael** (1986), B.S., University of Maryland; M.Sc., The George Washington University; Assistant Professor of Computer Science and Information Systems.
- French, Valerie** (1972), B.A., Cornell University; M.A., Ph.D., University of California, Los Angeles; Associate Professor of History.*
- Furber, Lincoln M.** (1977), B.A., Middlebury College; M.S., Columbia University; Associate Professor of Communication.
- Fyfe, James J.** (1979), B.A., John Jay College; M.A., Ph.D., State University of New York at Albany; Professor of Justice.
- Gabriel, Ralph H.** (1958), B.A., M.A., Ph.D., Yale University; University Professor Emeritus of International Service.
- Gallup, Stephen V.** (1988), B.A., Pomona College; Master of Letters, St. Anthony's College, Oxford; Ph.D., University of California; Assistant Professor of International Service.
- Gammon, William H.** (1970), B.A., D.B.A., The George Washington University; M.A., The American University; Associate Professor Emeritus of Technology and Administration.
- Garrard, Mary D.** (1964), B.A., Newcomb College; M.A., Radcliffe College; Ph.D., The Johns Hopkins University; Professor of Art.
- Gelser, Daniel S.** (1966), B.A., Juniata College; M.A., The Ohio State University; Ed.D., Columbia University; Professor Emeritus of Health and Fitness.
- Gimble, Josephine G.** (1966), B.A., The American University; M.S.N., The Catholic University of America; M.P.H., Dr.P.H., Johns Hopkins University; Professor Emerita of Nursing.
- Girard, James E.** (1979), B.A., Lewis College; Ph.D., The Pennsylvania State University; Professor of Chemistry.*
- Glazer, Herbert** (1968), A.B., A.M., Ph.D., Boston University; Professor of Business Administration.
- Gleason, BJ** (1990), B.S., M.S., New Jersey Institute of Technology; Instructor of Computer Science and Information Systems.
- Gould, Robert Steven** (1989), B.A., University of Maryland; M.A., Antioch University; Assistant Professor of Communication.
- Goddard, Kathryn Ann** (1988), B.S., Gettysburg College; M.S., Bucknell University; Ph.D., University of Connecticut; Assistant Professor of Biology.
- Golash, Deirdre** (1990), A.B., Barnard College; M.A., University of Maryland; J.D., Georgetown University; Ph.D., University of Maryland; Assistant Professor of Justice, Law and Society.
- Goldin, Jessica W.** (1966), B.A., Long Island University; M.A., Columbia University; Associate Professor Emerita of Language and Foreign Studies.
- Goldman, Robert K.** (1971), B.A., University of Pennsylvania; J.D., University of Virginia; Professor of Law.
- Gondos, Dorothy D.** (1947), B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania; Professor Emerita of History.
- Goodman, Charles H.** (1956), B.S.C., Wilson Teachers College; M.S.C., Ph.D., The Pennsylvania State University; Professor Emeritus of International Service.
- Goodman, Louis W.** (1986), A.B., Dartmouth College; M.A., Ph.D., Northwestern University; Professor and Dean of the School of International Service.
- Gorman, Ronald H.** (1969), B.B.A., M.B.A., University of Cincinnati; Ph.D., The Ohio State University; Associate Professor of Business Administration.
- Graham, Fred C.** (1988), B.A., Gettysburg College; Ph.D., University of Virginia; Assistant Professor of Economics.
- Graham, Michael T.** (1973), B.A., University of Pennsylvania; M.F.A., Yale University; Associate Professor of Art.
- Gray, James J.** (1970), B.A., Maryknoll College; M.A., Ph.D., Fordham University; Professor of Psychology.
- Gray, Mary** (1968), A.B., Hastings College; M.A., Ph.D., University of Kansas; J.D., The American University; Professor of Mathematics and Statistics.
- Gray, Michael** (1990), B.S., Auburn University; M.S., Ph.D., The Pennsylvania State University; Assistant Professor of Computer Science and Information Systems.
- Grebe, Stephen C.** (1976), A.B., University of Pennsylvania; Ph.D., University of Texas; Associate Professor of Biology.
- Greenberg, Gerahon** (1973), B.A., Bard College; Ph.D., Columbia University; Associate Professor of Philosophy and Religion.

- Greenberg, Milton** (1980), B.A., Brooklyn College; M.A., Ph.D., University of Wisconsin; Professor of Government and Public Administration and Provost/Vice President for Academic Affairs.
- Greene, Michael A.** (1976), B.A., Columbia University; Ph.D., Carnegie-Mellon University; Associate Professor of Mathematics and Statistics.
- Gregg, Robert W.** (1970), A.B., Colgate University; Ph.D., Cornell University; Professor of International Service.
- Griffith, Ernest S.** (1958), A.B., Hamilton College; D.Phil., Oxford University; University Professor and founding Dean Emeritus of the School of International Service.
- Gross, Chalmers A.** (1959), B.A., M.S., University of Illinois; Ph.D., University of Chicago; Professor Emeritus of Education.
- Gross, Daniel R.** (1990), B.A., University of Chicago; Ph.D., Columbia University; Applied Anthropologist in Residence.
- Grossinger, Harvey** (1990), B.A., New York University; M.A., Indiana University; M.F.A., The American University; Instructor of Literature.
- Grossman, Claudio** (1983), Licenciado en Ciencias Jurídicas Y Sociales, University of Chile; Doctor in Law, University of Amsterdam; Professor of Law.
- Guttman, Egon** (1968), B.A., LL.B., LL.M., University of London; Professor of Law.
- Haaga, David** (1989), B.A., Harvard University; M.A., Ph.D., University of Southern California; Assistant Professor of Psychology.
- Hackett, Beatrice N.** (1990), B.A., The George Washington University; M.A., Ph.D., The American University; Applied Anthropologist in Residence.
- Hager, Mark M.** (1987), A.B., Amherst College; M.A., Harvard University; J.D., Harvard Law School; Ph.D., Harvard University; Associate Professor of Law.
- Hahn, Robin Eric** (1976), B.A., Harvard University; Ph.D., The American University; Associate Professor of Economics.
- Haine, W. Scott** (1988), B.A., University of California, Berkeley; M.A., Ph.D., University of Wisconsin; Assistant Professor of History.
- Hakim, Jeffrey L.** (1989), B.A., University of Virginia; M.S., University of Chicago; Ph.D., Columbia University; Assistant Professor of Mathematics.
- Halpern, Katherine S.** (1970), B.A., Vassar College; Ph.D., University of Chicago; Professor Emerita of Anthropology.
- Hammer, Mitchell** (1988), B.A., St. Norbert College; M.A., Ohio University; Ph.D., University of Minnesota; Assistant Professor of International Service.
- Hammond, Susan** (1972), A.B., Bryn Mawr College; M.A., Ph.D., The Johns Hopkins University; Professor of Government and Public Administration.
- Hampton, Joseph E.** (1961), B.S., University of Florida; M.A., Ph.D., The Ohio State University; C.P.A.; Professor Emeritus of Business Administration.
- Han, Pierre** (1964), B.A., The Catholic University of America; M.A., Ph.D., Columbia University; Professor Emeritus of Literature.
- Hanus, Jerome J.** (1966), B.A., University of Seattle; M.A., University of Washington; Ph.D., University of Maryland; Professor of Government and Public Administration.
- Hardwick, Charley D.** (1967), B.A., Southern Methodist University; B.D., Drew University; M.A., Ph.D., Yale University; Professor of Philosophy and Religion.
- Harnden, Glenn P.** (1969), A.B., M.A., Stanford University; Professor of Communication.
- Harris, George L.** (1965), B.A., University of Washington; Ph.D., The Catholic University of America; Professor Emeritus of Anthropology and International Service.
- Harris, Nadia** (1987), B.A., George Mason University; M.A., Ph.D., Georgetown University; Assistant Professor of Language and Foreign Studies.
- Harris, Richard** (1990), B.S., University of Maryland; M.B.A., University of Maryland; J.D., University of Maryland; C.P.A.; Assistant Professor of Accounting.
- Harrison, Mark** (1960), B.S., North East Missouri State College; Ph.D., The Catholic University of America; Professor Emeritus of Physics.
- Hart, Patricia E.** (1988), B.A., Purdue University; M.B.A., Ph.D., Georgia State University; Assistant Professor of Business Administration.
- Hastak, Manoj** (1989), B.Sc., Birla Institute of Technology and Science; M.B.A., Indian Institute of Management; Ph.D., The Pennsylvania State University; Assistant Professor of Marketing.
- Hawke, Virginia E.** (1950), B.S., M.A., The Ohio State University; Professor Emerita of Health and Fitness.
- Hayes, Evelyn S.** (1951), B.M., University of Kansas; University Professor Emerita of Music.
- Hayne, Ronald M.** (1984), B.A., M.F.A., The American University; Assistant Professor of Art.
- Hazilla, Michael** (1988), B.S., Western Michigan University; M.A., University of Michigan; M.S., Ph.D., State University of New York at Binghamton; Associate Professor of Economics.
- Headlee, Sue** (1987), B.A., DePauw University; M.A., University of Chicago; Ph.D., The American University; Assistant Professor of Economics in Washington Semester.
- Heaton, Alan** (1990), B.A., The Johns Hopkins University; M.A., Ph.D., University of Maryland; Assistant Professor of Psychology.
- Hendrix, J. Allen** (1965), B.A., East Texas State University; M.A., University of Oklahoma; Ph.D., Louisiana State University; Professor of Communication.
- Henry, Mary** (1990), A.B., Colby College; M.A., University of Hawaii; Instructor of Literature.
- Higdon, Elizabeth G.** (1989), B.A., Bryn Mawr College; M.A., Ph.D., University of California; Assistant Professor of Art.
- Hillis, Stephen** (1987), B.A., M.F.A., M.S., Ph.D., University of Iowa; Assistant Professor of Mathematics and Statistics.
- Hirano, Marjorie Y.** (1967), B.E., University of Hawaii; M.S., Illinois Institute of Technology; Associate Professor of Art.
- Hirschmann, David** (1986), B.A., LL.B., M.A., Ph.D., University of Witwatersrand, Johannesburg; B.A., B.L., Abe Bailey Travel Bursary to Britain; M.A., South African Institute of International Affairs; Ph.D., National University Lesotho; Associate Professor of International Service.
- Hoagland, Sarah H.** (1989), B.A., Wesleyan University; M.A., University of Denver; Ph.D., The American University; Assistant Professor of International Service in Washington Semester.
- Hodinko, Bernard A.** (1967), B.S., California State College; M.A., University of West Virginia; Ed.D., The Pennsylvania State University; Professor of Education.
- Hoen, Bernd** (1990), M.B.A., Ph.D., University of Economic Sciences, Berlin; Visiting Assistant Professor of Economics.
- Holliday, Frances** (1959), B.S., Northwest Missouri State University; M.A., University of Missouri; Ed.D., The George Washington University; Professor Emerita of Education.
- Holmberg, Stevan R.** (1977), B.S., University of Tulsa; M.B.A., D.B.A., Indiana University; Professor of Business Administration.
- Holzager, Richard A.** (1970), A.B., Columbia University; A.M., Ph.D., Harvard University; Professor of Computer Science and Information Systems.
- Hong, Tsai-Hong** (1989), B.S., Kaohsiung Teaching College; M.S., Ph.D., University of Maryland; Assistant Professor of Computer Science and Information Systems.
- Hood, Mary Ann** (1957), B.A., M.A., Michigan State University; Associate Professor Emerita of Language and Foreign Studies.
- Howell, Llewellyn D., Jr.** (1974), B.S., State University of New York at Brockport; M.A., Florida State University; Ph.D., Syracuse University; Professor of International Service.

- Huang, Shuyan** (1991), M.A., University of Idaho; Visiting Scholar of Mathematics and Statistics.
- Hubbell, Josephine W.** (1962), B.S., The College of William and Mary; M.A., State University of Iowa; Ph.D., New York University; Professor Emerita of Health and Fitness.
- Huber, Franz E.** (1970), B.A., M.A., Ph.D., University of Michigan; Associate Professor Emeritus of Education.
- Humphries, Gall** (1983), B.A., Allegheny College; M.A., The American University; Assistant Professor of Performing Arts.
- Hunsberger, Warren S.** (1966), B.A., Ph.D., Yale University; Professor Emeritus of Economics and International Service.
- Huo, Hwei-Ling** (1990), B.A., Shandong University; M.A., M.Phil., Columbia University; Ph.D., Columbia University; Assistant Professor of International Service.
- Husted, Thomas A.** (1986), A.B., University of Michigan, Ann Arbor; Ph.D., University of North Carolina, Chapel Hill; Assistant Professor of Economics.
- Hutchison, G. Whit** (1988), B.A., Davidson College; M.Div., Emory University; Master of Philosophy, Union Seminary; Instructor of Justice, Law and Society.
- Hyman, John** (1988), B.A., Middlebury College; M.A., University of Maryland; Writing Instructor.
- Ibrahim, Huma** (1989) B.A., Kinnaird College, Pakistan; M.A., Punjab University, Pakistan; M.A., Ph.D., Indiana University; Assistant Professor of Literature.
- Irlah, Marian D.** (1966), B.A., Barnard College; M.A., Bryn Mawr College; Ph.D., Yale University; Professor Emerita of International Service.
- Issac, Alan G.** (1987), B.A., B.S., M.A., Ph.D., University of California, Davis; Associate Professor of Economics.
- Ivers, Gregory D.** (1989), B.A., University of Missouri; M.A., Ph.D., Emory University; Assistant Professor of Government.
- Ivson, Sterling H., Jr.** (1974), B.S., Massachusetts Institute of Technology; M.B.A., Harvard University; Associate Professor Emeritus of Business Administration.
- Jacoba, David Carroll** (1986), B.A., M.A., University of Michigan; Ph.D., Cornell University; Associate Professor of Business Administration.
- Jacobs, Frederic** (1985), B.A., Dickinson College; M.A., Ph.D., University of Pennsylvania; Professor of Education and Dean of Faculties.
- Jacoby, Phillip F.** (1972), A.B., Boston College; M.S., Northeastern University; Ph.D., The George Washington University; C.P.A.; Associate Professor of Business Administration. *
- James, Louis C.** (1957), B.S., LL.B., University of Virginia; M.A., LL.M., Columbia University; Professor Emeritus of Law.
- Jaezi, Peter A.** (1976), A.B., J.D., Harvard University; Professor of Law.
- Jennings, Calene Sinette** (1989), B.A., Bennington College; M.F.A., New York University; Assistant Professor of Performing Arts.
- Jernigan, Robert Wayne** (1978), B.A., M.A., Ph.D., University of South Florida; Professor of Mathematics and Statistics. *
- Johnson, Johnny** (1990), M.S., B.S., Ph.D., Virginia Polytechnic Institute and State University; C.P.A.; Associate Professor of Accounting.
- Johnson, Robert** (1977), B.A., Fairfield University; Ph.D., State University of New York at Albany; Professor of Justice.
- Jorgens, Jack J.** (1975), B.A., Carleton College; M.A., City College of New York; Ph.D., New York University; Professor of Literature.
- Joughin, Jean T.** (1959), B.A., M.A., Ph.D., University of Texas; Professor Emerita of History.
- Kahn, Deborah** (1989), B.F.A., Kansas City Art Institute; M.F.A., Yale University; Assistant Professor of Art.
- Kang, Cheoul-Shin** (1987), B.S.E.E., Hanyang University, Seoul, Korea; M.S.E.E., Ph.D., Oregon State University; Assistant Professor of Computer Science and Information Systems.
- Kaplan, Bonnie** (1989), B.A., Cornell University; M.A., Ph.D., University of Chicago; Assistant Professor of Computer Science and Information Systems.
- Kaplan, Helen** (1990), B.F.A., Tyler School of Art; M.F.A., Indiana University; Assistant Professor of Art.
- Karadobil, Laura L.** (1958), B.S.B.A., M.B.A., Ph.D., The American University; C.P.A.; Professor Emerita of Business Administration.
- Karch, Robert C.** (1969), B.S., University of Maryland; M.Ed., Ed.D., The American University; Professor of Health and Fitness. *
- Karna, Jack** (1990), B.A., M.P.A., M.S., Syracuse University; J.D., Tulane University; Visiting Associate Professor of Accounting.
- Kay, Richard B.** (1967), B.S., Drury College; M.S., Ph.D., University of Arkansas; Professor of Physics.
- Kazin, Michael** (1985), B.A., Harvard University; M.A., Portland State University; Ph.D., Stanford University; Assistant Professor of History.
- Keck, Andrew S.** (1946), B.A., Williams College; M.A., M.F.A., Princeton University; University Professor Emeritus of Art.
- Kehoe, Patrick E.** (1973), B.C.S., Seattle University; J.D., M.L.Lib., University of Washington; Professor of Law and Director of Law Library.
- Kelly, Faye L.** (1962), A.B., M.A., Ph.D., University of Florida; Professor Emerita of Literature.
- Kennewan, Walter J.** (1969), B.C.S., M.C.S., M.F.A., The Catholic University of America; Professor Emeritus of Computer Science and Information Systems.
- Kerwin, Cornelius M.** (1975), B.A., The American University; M.A., University of Rhode Island; Ph.D., The Johns Hopkins University; Associate Professor of Government and Public Administration and Dean of the School of Public Affairs.
- Kessler, Edward L.** (1967), A.B., University of Virginia; M.A., Ph.D., Rutgers State University; Professor of Literature.
- Khambata, Dara M.** (1982), B.S., Emerson College; M.B.A., Columbia University; M.B.A., University of Karachi; D.B.A., The George Washington University; Professor of Business Administration.
- Khorramshahgol, Reza** (1989), B.S., University of Tehran; M.E.A., D.Sc., The George Washington University; Assistant Professor of Computer Science and Information Systems.
- Kille, Robert M.** (1988), B.S., M.S., Ph.D., Georgetown University; Assistant Professor of Physics.
- Kim, Hyung** (1991), B.S., Korea University; B.A., Lewis and Clark College; M.A., The Johns Hopkins University; Instructor of International Service.
- Kimes, Don** (1988), B.A., Westminster College; M.F.A., City University of New York, Brooklyn; Associate Professor of Art. *
- Kincade, William** (1989), B.A., Princeton University; M.A., Ph.D., The American University; Associate Professor of International Service.
- King, A. Allen** (1965), B.S., LL.B., University of Tulsa; LL.M., University of Michigan; Professor Emeritus of Law.
- King, Frances H.** (1957), B.A., Western College; M.A., The Ohio State University; Professor Emerita of Literature.
- Kittre, Nicholas N.** (1964), A.B., LL.B., M.A., University of Kansas; LL.M., S.J.D., Georgetown University; Professor of Law.
- Klein, Ira N.** (1968), B.S., M.A., Ph.D., Columbia University; Associate Professor of History.
- Koehler, David H.** (1970), B.S., University of Wisconsin; Ph.D., Syracuse University; Professor of Government and Public Administration.
- Koenig, Dolores B.** (1980), A.B., University of Chicago; M.A., Ph.D., Northwestern University; Assistant Professor of Anthropology. *
- Kokus, John, Jr.** (1969), B.S., University of California, Berkeley; M.S., California State University; Ph.D., The American University; Associate Professor of Business Administration. *

- Korin, Basil P.** (1961), B.A., University of Connecticut; M.S., Stanford University; Ph.D., The George Washington University; Professor of Mathematics and Statistics.
- Kovacic-Fleischer, Candace S.** (1981), A.B., Wellesley College; J.D., Northeastern University; Professor of Law.
- Krantz, Sheldon** (1990), B.S.L., J.D., University of Nebraska; Visiting Professor of Law.
- Kraut, Alan** (1974), B.A., Hunter College; M.A., Ph.D., Cornell University; Professor of History.
- Kreminski, Richard** (1990), S.B., Massachusetts Institute of Technology; Instructor of Mathematics.
- Kumar, P.C.** (1980), B.Sc., University of Bombay; B.E., University of Baroda; D.B.M., University of Madras; Ph.D., The Pennsylvania State University; Associate Professor of Business Administration.
- Kunmer, Laura B.** (1967), B.S.N.E., University of Pittsburgh; M.S., Case Western Reserve University; Ed.D., Indiana University; Dean Emerita and Professor Emerita of Nursing.
- Kurt, Lazzio** (1989), B.A., City College of New York; M.A., New York University; Ph.D., University of Massachusetts; Assistant Professor of Anthropology.
- Kusterer, Ken C.** (1973), B.A., Yale University; M.A., Ph.D., Washington University; Associate Professor of Sociology.
- Kuznick, Peter J.** (1986), B.A., M.A., Ph.D., Rutgers State University; Assistant Professor of History.
- Landman, Ruth H.** (1965), A.B., Vassar College; M.A., Ph.D., Yale University; Professor of Anthropology.
- Landon, Kenneth P.** (1965), B.A., Wheaton College; Th.B., Princeton University; M.A., Ph.D., University of Chicago; Professor Emeritus of International Service.
- Lane, Julia** (1990), B.A., Massey University; M.S., M.A., University of Louisville; Ph.D., University of Missouri; Assistant Professor of Economics.
- Lane, Ruth Allen** (1967), B.S., Simmons College; Ph.D., Georgetown University; Associate Professor of Government and Public Administration.
- Langbein, Laura Irwin** (1973), B.A., Oberlin College; Ph.D., University of North Carolina; Professor of Government and Public Administration.
- Lange, Andrea** (1989), B.A., Mount Holyoke; M.S., The American University; Instructor of Justice in the Washington Semester Program.
- Lankowski, Carl** (1990), B.S.F.S., Georgetown University; M.S., Southern Connecticut State University; M.Phil., Ph.D., Columbia University; Assistant Professor of International Service in the Washington Semester Program.
- Larson, Charles** (1970), B.A., M.A., University of Colorado; Ph.D., Indiana University; Professor of Literature.
- La Salle, Anita J.** (1988), B.S., M.S., Newark College of Engineering; Ph.D., Stevens Institute of Technology; Associate Professor of Computer Science and Information Systems.
- Lea, Douglass** (1988), B.A., Yale University; Instructor of Government in the Washington Semester Program.
- Leap, William L.** (1970), B.A., Florida State University; Ph.D., Southern Methodist University; Associate Professor of Anthropology.*
- Learned, Nada** (1990), M.A., B.A., University of Paris; M.A., Wayne State University; Instructor of Language and Foreign Studies.
- Leedy, Paul D.** (1961), A.B., Dickinson College; M.A., University of Pennsylvania; Ph.D., New York University; Professor Emeritus of Education.
- Leitan, Genevieve** (1991), B.A., University of Ceylon; M.S., Ph.D., University of London; Visiting Scholar of International Service.
- Lenelle, Baudouin** (1991), B.A., Université Catholique de Louvain; Visiting Scholar in Residence of Communication.
- Leogrande, William** (1982), A.B., M.A., Ph.D., Syracuse University; Associate Professor of Government and Public Administration.
- Lerman, Robert I.** (1989), A.B., Brandeis University; Ph.D., Massachusetts Institute of Technology; Professor of Economics.*
- Leventhal, Allan M.** (1968), B.A., Lafayette College; M.A., Kent State University; Ph.D., State University of Iowa; Professor of Psychology.
- Levinson, Nanette Segal** (1980), A.B., Ed.M., Ed.D., Harvard University; Associate Professor of International Service and Associate Dean for Academic Affairs.
- Levy, Suzanne** (1990), B.A., Bates College; M.A., The American University; Ph.D., New York University; Instructor of Performing Arts.
- Lewis, C. Stanley** (1990), B.A., Wesleyan University; B.F.A., M.F.A., Yale University; Professor of Art.
- Lewis, Gregory B.** (1987), B.A., University of California, Santa Cruz; M.G.A., Georgia State University; Ph.D., Syracuse University; Associate Professor of Government and Public Administration.
- Li, Yong** (1989), M.S., Institute of Technology, Beijing; Instructor of Mathematics.
- Lichtman, Allan J.** (1973), B.A., Brandeis University; Ph.D., Harvard University; Professor of History.
- Lieber, Harvey** (1969), B.A., Yeshiva University; M.P.A., Syracuse University; Ph.D., Columbia University; Associate Professor of Government and Public Administration.
- Lindsay, Michael** (1959), B.A., M.A., Oxford University; Professor Emeritus of International Service.
- Linowes, Richard G.** (1986), B.A., Princeton University; M.S., University of Michigan; D.B.A., Harvard University; Assistant Professor of Business Administration.
- Little, Thomas Hamilton** (1989), B.A., University of North Carolina; M.A., The Ohio State University; Instructor in Government.
- Loesberg, Jonathan** (1982), A.B., Brown University; M.A., Ph.D., Cornell University; Associate Professor of Literature.
- Lomnitz, Larissa** (1990), Ph.D., Iberoamerican University, Mexico; Visiting Professor of International Service.
- Long, Nicholas J.** (1968), B.A., Wayne State University; Ph.D., University of Michigan; Professor of Education.
- Long, William J.** (1987), B.A., The American University; M.A., Columbia University; J.D., Georgetown University Law Center; Ph.D., Columbia University; Assistant Professor of International Service.
- Lorimer, Frank** (1938), B.A., Yale University; B.D., Union Theological Seminary; M.A., University of Chicago; Ph.D., Columbia University; Professor Emeritus of Sociology.
- Lorincz, Irene** (1990), B.A., Brandeis University; Ph.D., University of Chicago; Assistant Professor of Government.
- Losey, Robert L.** (1982), B.A., Centre College of Kentucky; M.A., Ph.D., University of Kentucky; Associate Professor of Business Administration.
- Lovell, Chris** (1989), B.A., Goddard College; M.Ed., University of Vermont; Ph.D., The American University; Assistant Professor of Education.
- Lubic, Robert B.** (1965), A.B., LL.B., University of Pittsburgh; M.P.L., Georgetown University; Professor of Law.
- Lubrano, Linda L.** (1968), B.A., Hunter College; M.A., Ph.D., Indiana University; Professor of International Service.
- Luck, Rudy L.** (1990), M.S., B.S., University of Toronto; Ph.D., University of Toronto; Assistant Professor of Chemistry.
- Lukacs, Yehuda** (1989), B.A., M.A., The American University; Instructor of International Service for the Washington Semester Program.
- Lustig, Arnost** (1973), M.A., Ing., University of Prague; Professor of Literature.
- Lustig, Josef** (1990), B.A., The University of Iowa; M.A., The American University; M.A., New York University; Assistant Professor of Communication.
- Lyman, Jennifer P.** (1990), B.A., Yale University; J.D., Stanford Law School; Visiting Assistant Professor of Law.

- Lynch, James P.** (1985), B.A., Wesleyan University; M.A., Ph.D., University of Chicago; Assistant Professor of Justice.
- Macartney, John** (1990), B.S., U.S. Air Force Academy; M.A., Ph.D., University of Southern California; Associate Professor of International Service.
- Machlin, Claire T.** (1966), B.A., Hunter College; M.A., The George Washington University; Assistant Professor Emerita of Mathematics, Statistics and Computer Science.
- Magnotti, John F., Jr.** (1981), B.S., U.S. Military Academy; M.A., University of Maryland; Ph.D., The American University; Assistant Professor of Business Administration.
- Malsch, Christian** (1988), B.A., Ohio Dominican College; M.A., Ph.D., The American University; Assistant Professor of International Service.
- Maksoud, Clovia** (1991), B.A., The American University; M.A., LL.B., J.D., The George Washington University; Diplomat in Residence of International Service.
- Malloy, James A., Jr.** (1971), B.A., Morris Harvey College; M.A., Ph.D., The Ohio State University; Associate Professor of History.
- Mandel, Alan R.** (1966), B.S., M.S., Juilliard School of Music; Professor of Performing Arts.
- Manley, Maria** (1990), B.A., University of London; M.A., Harvard University; Instructor of Language and Foreign Studies.
- Manning, Robert D.** (1989), B.A., Duke University; M.A., Northern Illinois University; Ph.D., The John Hopkins University; Assistant Professor of Sociology.
- Mardin, Serif** (1988), B.A., Stanford University; M.A., The Johns Hopkins University; Ph.D., Stanford University; Professor of International Relations.
- Mardrosian, Halg** (1976), B.M., M.M., D.M.A., The Catholic University of America; Professor of Performing Arts.
- Marks, Allen P.** (1988), B.A., Indiana University; M.H.A., University of Michigan; M.S., Ph.D., University of California; M.S., Georgia State University; Assistant Professor of Business Administration.
- Marlin-Bennett, Renee** (1987), B.A., Pomona College; S.M., Ph.D., Massachusetts Institute of Technology; Assistant Professor of International Service.
- Martin, David Clarke** (1981), B.A., University of Louisville; M.B.A., University of Toledo; Ph.D., University of Maryland; Professor of Business Administration.
- Martin, Mary L.** (1958), LL.B., The American University; Professor Emerita of Law.
- Martyn, Howe** (1961), B.A., University of Toronto; M.A., Oxford University; Professor Emeritus of Business Administration.
- Marx, Patricia** (1991), B.A., M.A., The American University; Ph.D., University of Maryland; Assistant Professor of Art.
- Mason, Vito E.** (1966), B.S., New York University; M.S., Ithaca College; Professor Emeritus of Performing Arts.
- Mass, Michael A.** (1974), B.S., University of Pennsylvania; J.D., Georgetown University; Associate Professor of Business Administration.
- May, James P.** (1982), B.A., Carleton College; J.D., Harvard Law School; Professor of Law.
- Mazie, Michael B.** (1979), B.S., University of Pennsylvania; M.B.A., New York University; Ph.D., The Pennsylvania State University; Professor of Business Administration.
- Mazur, Sharilyn** (1988), B.A., Reed College; Ph.D., University of Wisconsin-Madison; Assistant Professor of Chemistry.
- McCann, Richard** (1988), B.A., Virginia Commonwealth University; M.A., Hollins College; M.A., Ph.D., University of Iowa; Assistant Professor of Literature.
- McCarthy, Barry W.** (1969), B.A., Loyola University; M.A., Ph.D., Southern Illinois University; Professor of Psychology.
- McCue, Edmund B.** (1964), A.B., Union College; M.S., University of Michigan; Ph.D., Carnegie Institute of Technology; Associate Professor Emeritus of Mathematics, Statistics, and Computer Science.
- McCurdy, Howard E.** (1968), B.A., M.A., University of Washington; Ph.D., Cornell University; Professor of Government and Public Administration.
- McDermott, Alice** (1991), B.A., State University of New York; M.A., University of New Hampshire; Distinguished Writer in Residence.
- McFeeter, Ruth** (1955), B.S., Beaver College; M.A., Columbia University; Associate Professor Emerita of Health and Fitness.
- McGinnies, Elliott M.** (1971), B.A., University of Buffalo; M.A., Brown University; Ph.D., Harvard University; Professor Emeritus of Psychology.
- McGuire, Eugene** (1990), B.S., University of Maryland; M.S., The American University; Instructor of Computer Science and Information Systems.
- McLain, James L.** (1935), B.A., The George Washington University; Certificate, Peabody Conservatory of Music; Professor Emeritus of Music.
- McLaughlin, Charles C.** (1963), B.A., Yale University; M.A., Ph.D., Harvard University; Professor of History.
- McNett, Charles W.** (1967), B.A., Ph.D., Tulane University; Professor of Anthropology.
- Meadows, Martin** (1961), B.A., M.A., Ph.D., University of Oregon; Professor Emeritus of Government and Public Administration.
- Medish, Vadim** (1963), B.A., University of Pennsylvania; M.A., Ph.D., The American University; Professor of Language and Foreign Studies and International Service.
- Medaker, Larry** (1988), B.A., M.S., Ph.D., Indiana University; Professor of Computer Science and Information Systems.*
- Mehlert, Peter** (1972), B.S., Boston University; M.A., The American University; Assistant Professor of Health and Fitness.
- Mendenhall, Christian** (1990), B.A., University of St. Thomas; M.A., University of Dallas; Ph.D., Northwestern University; Assistant Professor of Performing Arts.
- Meson, Danusla** (1990), B.A., M.A., Ph.D., University of Maryland; Assistant Professor of Language and Foreign Studies.
- Messersmith, Craig E.** (1969), B.A., Hobart College; M.Ed., Ed.D., The Pennsylvania State University; Associate Professor of Education.
- Meurs, Mieke E.** (1989), B.A., University of Wisconsin-Madison; Ph.D., University of Massachusetts; Assistant Professor of Economics.
- Miller, Binny** (1988), B.A., Carleton College; J.D., University of Chicago; Assistant Professor of Law.
- Miller, Dennis D.** (1962), B.S., Goshen College; M.Ed., Kent State University; Ed.D., The American University; Associate Professor Emeritus of Education.
- Milstein, Elliott S.** (1972), B.A., University of Hartford; J.D., University of Connecticut; LL.M., Yale University; Professor of Law and Dean of the Washington College of Law.
- Mitra, Anusree** (1990), B.A., The University of Calcutta; M.B.A., Ph.D., University of Florida; Assistant Professor of Marketing.
- Mittlebeeler, Emmet V.** (1954), B.A., LL.B., University of Louisville; M.A., Ph.D., University of Chicago; University Professor Emeritus of Government and Public Administration.
- Modares-Hakami, Reza** (1987), B.S., M.S., The American University; Instructor of Mathematics and Statistics.
- Moore, Donald T.** (1967), B.F.A., M.F.A., Ohio University; M.A., The American University; Associate Professor of Communication.
- Moore, Harvey C.** (1951), B.A., University of Delaware; Ph.D., University of New Mexico; Professor Emeritus of Anthropology.
- Moore, Kevin** (1990), B.A., Rutgers State University; M.A., Ph.D., New York University; Assistant Professor of Literature.

- Moore, Richard J. T.** (1988), B.A., St. Joseph's College; M.A., Ph.D., University of Texas; Assistant Professor of International Service.
- Morella, Anthony C.** (1961), A.B., Boston University; J.D., Washington College of Law; Professor of Law and General Counsel.
- Morris, Louis Allen** (1988), B.A., Boston University; M.A., New School for Social Research; Ph.D., Tulane University; Scholar in Residence of Business Administration.
- Morris, Valerie** (1974), B.A., The American University; M.A., University of Michigan; Associate Professor of Performing Arts.*
- Mott, Albert D.** (1958), B.A., M.A., University of Missouri; Ph.D., University of California, Berkeley; Professor Emeritus of International Service.
- Mowlana, Hamid** (1968), B.A., M.S., Ph.D., Northwestern University; Professor of International Service.*
- Moyer, Kermit W.** (1970), B.A., M.A., Ph.D., Northwestern University; Professor of Literature.
- Mroczowski, Tomasz** (1985), B.A., M.S., Jagiellonian University; Ph.D., Academy of Economics, Krakow, Poland; Associate Professor of Business Administration.
- Mueller, Gert H.** (1973), Ph.D., University of Munich; Professor of Sociology.
- Mueller, Hugo J.** (1959), Ph.D., University of Hamburg; Professor Emeritus of Language and Foreign Studies.
- Müller, Ronald E.** (1970), B.A., U.S. Air Force Academy; M.A., Ludwig-Maximilian University; Ph.D., The American University; Professor of Economics.
- Murphy, Marcia Gaughan** (1983), A.B., Smith College; J.D., Notre Dame Law School; Professor of Law.
- Murphy, Terence R.** (1968), B.A., University of Chicago; M.A., Roosevelt University; Ph.D., Northwestern University; Associate Professor of History.
- Mussell, Kay J.** (1974), B.A., M.A., Ph.D., University of Iowa; Professor of Literature.*
- Myroie, John** (1991), B.S., Syracuse University; Ph.D., Rensselaer Polytechnic Institute; Visiting Professor of Biology and Chemistry.
- Myren, Richard A.** (1976), B.S., University of Wisconsin; LL.B., Harvard University; Professor Emeritus of Justice.
- Nadell, Pamela S.** (1982), B.A., Douglass College, Rutgers, The State University of New Jersey; M.A., Ph.D., The Ohio State University; Associate Professor of History and Jewish Studies.
- Nash, Philco** (1973), A.B., University of Wisconsin; Ph.D., University of Chicago; Professor Emeritus of Anthropology.
- Nelson, Anna K.** (1991), B.A., M.A., University of Oklahoma; Ph.D., The George Washington University; Assistant Professor of History.
- Nelson, Candice** (1990), B.A., Wheaton College; M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley; Assistant Professor of Government.
- Newman, Ralph A.** (1956), A.B., LL.B., Harvard University; Professor Emeritus of Law.
- Newman, Saul** (1989), B.A., Columbia University; M.A., Ph.D., Princeton University; Assistant Professor of Government.
- Newton, Neil** (1990), B.A., University of California; J.D., University of California; Visiting Professor of Law.
- Noel, Henry M.** (1963), Dr. d'Université, Université de Montpellier; M.A., University of Pennsylvania; Associate Professor Emeritus of Language and Foreign Studies.
- Noian, John P.** (1989), B.S., University of Maryland; Ph.D., University of Virginia; Assistant Professor of Mathematics.
- Nyce, Lawrence G., Jr.** (1963), B.S., Lock Haven State College; M.A., University of Maryland; Associate Professor of Health and Fitness.
- O'Connell, Julia** (1990), B.A., University of Michigan; B.Mus., George Mason University; M.S., The Catholic University of America; Instructor of Mathematics.
- O'Connor-Finn, Patricia Ann** (1969), B.S.N., M.S.N., The Catholic University of America; Associate Professor of Health and Fitness.
- Oktaý, Eleni K.** (1961), B.A., The George Washington University; M.A., The American University; Assistant Professor Emerita of Language and Foreign Studies.
- Oliver, Amy A.** (1989), B.A., Purdue University; M.A., Ph.D., University of Massachusetts; Assistant Professor of Language and Foreign Studies.
- Olmstead, Jillene J.** (1989), B.A., University of Minnesota; M.A., The American University; Assistant Professor of Communication.
- Olsen, Rodney** (1990), A.A., Worthington Community College; B.A., St. Olaf College; M.A., University of Missouri; Ph.D., University of Missouri; Assistant Professor of History.
- Olson, William Clinton** (1979), A.B., University of Denver; M.A., Yale University; Professor Emeritus of International Service.
- Onuf, Nicholas G.** (1970), B.A., Ph.D., Johns Hopkins University; M.A., Yale University; Professor of International Service.
- Oppenheim, Janet** (1975), B.A., Bryn Mawr College; M.A., Ph.D., Columbia University; Professor of History.
- Orenstein, Denise G.** (1989), B.A., Bennington College; M.A.T., Brown University; Writing Instructor in Residence.
- Orwant, Jack E.** (1970), B.A., M.A., University of Michigan; M.S., The American University; Ph.D., University of Iowa; Professor of Communication.
- Owens, James** (1961), B.A., Loyola University; M.A., University of Chicago; Ph.D., Georgetown University; Professor Emeritus of Business Administration.
- Owring, M. Mehdi** (1986), B.A., College of Economics and Social Science, Babolsar, Iran; M.S., Ph.D., University of Oklahoma; Assistant Professor of Computer Science and Information Systems.
- Oxman, Mark** (1976), Certificate of Merit, City and Guilds of London Art School; Associate Professor of Art.
- Pace, Stephen** (1975), Professor Emeritus of Art.
- Parker, Scott R.** (1974), A.B., M.A., Ph.D., Columbia University; Associate Professor of Psychology.
- Patton, Mary M.** (1943), B.A., Kalamazoo College; M.A., Columbia University; Professor Emerita of Literature.
- Paul, Joel Richard** (1986), B.A., Amherst College; J.D., Harvard Law School; M.A.L.D., Tufts University; Associate Professor of Law.
- Payne, Deborah C.** (1985), B.A., Loyola University; M.A., Ph.D., University of California at Los Angeles; Assistant Professor of Literature.
- Pearce, Judy Ann** (1989), B.A., University of South Carolina; M.A., Arizona State University; Ed. D., University of Virginia; Instructor in Literature.
- Perlmuter, Amos** (1972), B.A., M.A., Ph.D., University of California, Berkeley; Professor of Government and Public Administration.
- Perry, Anne C.** (1983), B.A., Randolph-Macon Woman's College; M.A., Duke University; M.I.M., American Graduate School of International Management; Ph.D., Washington University; D.B.A., The George Washington University; Professor of Business Administration.
- Peters, William H.** (1983), A.B., William Jewell College; M.S., Columbia University; M.B.A., Ph.D., University of Michigan; Professor of Business Administration.
- Peteraen, Karen** (1970), B.A., University of California, Berkeley; M.A., The Johns Hopkins University; Ph.D., Columbia University; Professor of Sociology.
- Petrowitz, Harold C.** (1964), B.S., University of Michigan; J.D., LL.M., Columbia University; Professor Emeritus of Law.
- Peynircioglu, Falka Zehra** (1988), A.B., Stanford University; M.A., Princeton University; Ph.D., Rice University; Assistant Professor of Psychology.

- Phillippi, Frank B.** (1987), B.S., Wesleyan University; M.S., Columbia University; Assistant Professor of Communication.
- Phillips, Aaron L.** (1989), B.E.E., Georgia Institute of Technology; M.B.A., D.B.A., Southern Illinois University at Carbondale; Assistant Professor of Finance.
- Photias, Nikos G.** (1955), B.A., Athens University; M.B.A., Handelschule, Koenigsberg; M.P.S., Ph.D., Albertus University; Professor Emeritus of Business Administration.
- Pike, Andrew D.** (1984), B.A., Swarthmore College; J.D., University of Pennsylvania; Professor of Law.
- Pineda, Hugo** (1959), B.A., Ph.M., Ph.D., The George Washington University; M.A., The American University; Associate Professor of Language and Foreign Studies.
- Piotrow, F. Jackson** (1963), B.A., Haverford College; B.A., M.A., D.Phil., Oxford University; Professor of International Service.
- Pollkoff, Nancy** (1987), B.A., University of Pennsylvania; J.D., Georgetown University; M.A., The George Washington University; Associate Professor of Law.
- Popper, Andrew F.** (1978), B.A., Baldwin Wallace College; J.D., DePaul University; LL.M., The George Washington University; Professor of Law.
- Powell, Gary** (1987), B.S., University of Akron; M.A., D.B.A., Kent State University; Assistant Professor of Business Administration.
- Preston, Nathaniel S.** (1961), A.B., Boston University; M.A., University of Pennsylvania; Ph.D., Princeton University; University Professor Emeritus of Government and Public Administration.
- Prevota, Naima** (1988), B.A., Brooklyn College; M.S., University of Wisconsin; Ph.D., University of Southern California; Professor of Performing Arts.
- Quinn, Grace S.** (1956), B.A., B.S., M.A., Ph.D., The Ohio State University; Professor Emerita of Mathematics, Statistics, and Computer Science.
- Rachwald, Arthur** (1990), Magister iuris, University of Maria Curie-Skłodowska; M.A., California State University; Ph.D., University of California; Visiting Professor of International Service.
- Radner, Joan N.** (1971), A.B., Radcliffe College; M.A., Ph.D., Harvard University; Associate Professor of Literature.
- Ralph, Ruth S.** (1975), B.A., Bethany College; M.A., Long Island University; Ph.D., University of Maryland; Associate Professor of Education.
- Randall, Darrell D.** (1962), B.A., Nebraska Wesleyan University; M.A., University of Nebraska; M.A., Columbia University; Ph.D., University of Chicago; Professor Emeritus of International Service.
- Randall, Mildred N.** (1966), B.S., M.S., Case Western Reserve University; Associate Professor Emerita of Nursing.
- Raskin, Jamin B.** (1990), B.A., Harvard College; J.D., Harvard Law School; Assistant Professor of Law.
- Ravenal, Carol M.** (1970), B.A., Brooklyn College; M.F.A., Ohio University; Ph.D., Harvard University; Associate Professor of Art.
- Raymond, Mary Anne** (1991), M.B.A., B.A., University of Alabama; Ph.D., University of Georgia; Assistant Professor of Marketing.
- Reiman, Jeffrey H.** (1970), B.A., Queens College; M.A., Ph.D., The Pennsylvania State University; William Fraser McDowell Professor of Philosophy.
- Reimann, Barbara J.** (1967), B.S., Temple University; M.A., University of Maryland; Associate Professor of Health and Fitness.
- Reiss, Howard R.** (1969), B.A.E., M.A.E., Polytechnic Institute of New York; Ph.D., University of Maryland; Professor of Physics.
- Rice, Frederick A.H.** (1963), B.A., M.S., Dalhousie University; Ph.D., The Ohio State University; Professor Emeritus of Chemistry.
- Rice, Paul R.** (1974), B.B.A., Marshall University; J.D., West Virginia University; LL.M., Yale University; Professor of Law.
- Richardson, John M.** (1975), A.B., Dartmouth College; Ph.D., University of Minnesota; Professor of International Service.
- Riddick, Leigh A.** (1989), B.A., Hendrix College; M.A., University of Arkansas; M.S., Ph.D., University of Wisconsin-Madison; Assistant Professor of Finance.
- Riley, Anne C.** (1981), B.A., Nazareth College; M.S., Syracuse University; C.P.A.; Assistant Professor of Business Administration.
- Riley, Anthony L.** (1976), B.A., University of North Carolina; Ph.D., University of Washington; Professor of Psychology.
- Rioch, Margaret J.** (1971), B.A., Wellesley College; M.A., Washington University; Ph.D., Bryn Mawr University; Professor Emerita of Psychology.
- Robbins, Ira P.** (1979), A.B., University of Pennsylvania; J.D., Harvard University; Professor of Law.
- Roberts, A. Hood** (1988), B.A., M.A., University of Florida; Ph.D., University of Wisconsin; Assistant Professor of Computer Science and Information Service.
- Roberts, Jeanne A.** (1960), A.B., Agnes Scott College; M.A., University of Pennsylvania; Ph.D., University of Virginia; Professor of Literature.
- Robinson, Edgar S.** (1953), B.A., Amherst College; M.A., Ph.D., Columbia University; Professor Emeritus of Government and Public Administration.
- Rodamir, Daniele G.** (1987), Licence, Maitrise, Université de Provence, France; Ph.D., University of Michigan; Assistant Professor of Language and Foreign Studies.
- Rodler, David F.T.** (1967), B.A., Drury College; Ph.D., Vanderbilt University; Associate Professor of Philosophy and Religion.
- Rojer, Olga E.** (1987), B.A., Mount Holyoke College; M.A., The American University; Ph.D., University of Maryland; Assistant Professor of Language and Foreign Studies.
- Roscher, Nina M.** (1974), B.S., University of Delaware; Ph.D., Purdue University; Professor of Chemistry.
- Roschwalb, Susanne A.** (1988), B.A., The Pennsylvania State University; M.A., Georgetown University; Assistant Professor of Communication.
- Rosenberg, Marvin I.** (1965), B.S., U.S. Naval Academy; B.S., Naval Postgraduate School; M.S., Purdue University; Associate Professor Emeritus of Computer Science and Information Systems.
- Rosenblatt, Harry M.** (1974), B.S., M.A., Ph.D., The George Washington University; Professor Emeritus of Mathematics, Statistics, and Computer Science.
- Rosenbloom, David** (1990), A.B., Marietta College; Ph.D., M.A., The University of Chicago; Distinguished Professor of Public Administration.
- Ross, Bernard H.** (1967), B.S., University of Pennsylvania; M.A., Ph.D., New York University; Professor of Government and Public Administration.*
- Rossotti, Jack E.** (1987), B.A., Northwestern University; M.A., Ph.D., Syracuse University; J.D., The Catholic University of America; Assistant Professor of Government and Public Administration.
- Rouse, Jacqueline Anne** (1989), B.A., Howard University; M.A., Atlanta University; Ph.D., Emory University; Associate Professor of History.
- Rubenstein, (Larson) Roberta** (1969), B.A., University of Colorado; Ph.D., University of London; Professor of Literature.
- Rubin, Seymour J.** (1972), A.B., University of Michigan; LL.B., LL.M., Harvard University; Professor Emeritus of Law.
- Saari, David J.** (1973), B.A., J.D., University of Minnesota; Professor of Justice.
- Sadker, David G.** (1973), B.A., City College of New York; M.A.T., Harvard University; Ed.D., University of Massachusetts; Professor of Education.

- Sadker, Myra** (1973), B.A., Boston University; M.A.T., Harvard University; Ed.D., University of Massachusetts; Professor of Education.
- Sager, Martha C.** (1955), B.S., M.S., University of Maryland; Ph.D., The Catholic University of America; Professor Emerita of Biology.
- Said, Abdul A.** (1957), B.S., M.A., Ph.D., The American University; Professor of International Service.
- Samarasinghe, Vidyamali** (1990), B.A., University of Ceylon; Ph.D., University of Cambridge; Associate Professor of International Service.
- Sampson, Michael P.** (1983), B.S., M.B.A., J.D., Cornell University; LL.M., Georgetown University; C.P.A.; Professor of Business Administration.
- Sandler, Hanna M.** (1989), B.A., University of Chicago; M.A., M.Phil., Ph.D., Columbia University; Assistant Professor of Mathematics.
- Sapleyevski, Jerzy** (1975), Diploma, State Advanced School of Music, Gdansk; M.M., The Catholic University of America; Professor of Performing Arts.
- Sargentich, Thomas O.** (1983), B.A., Harvard College; M.Phil., Oxford University; J.D., Harvard College; Professor of Law.
- Sawera, Larry B.** (1969), B.A., Duke University; M.A., Ph.D., University of Michigan; Professor of Economics.
- Schafft, Gretchen** (1990), B.A., Antioch College; M.A., The American University; M.H.S., Johns Hopkins University; Ph.D., The Catholic University of America; Applied Anthropologist in Residence.
- Schalk, Elaine M.** (1990), B.A., Appalachian State University; Ph.D., University of South Carolina; Assistant Professor of Chemistry.
- Schillit, Howard M.** (1978), B.A., Queens College; M.S., State University of New York at Binghamton; M.B.A., D.B.A., University of Maryland; C.P.A.; Associate Professor of Business Administration.
- Schiller, Bradley R.** (1980), B.A., University of California, Berkeley; Ph.D., Harvard University; Professor of Government and Public Administration.
- Schilling, John** (1990), B.A., Monmouth College; M.A., University of Illinois; M.A., Ph.D., University of Wisconsin; Professor of Language and Foreign Studies.*
- Schot, Steven H.** (1957), B.S., The American University; M.A., Ph.D., University of Maryland; Professor of Mathematics and Statistics.
- Schrader, Janet** (1990), B.A., University of Miami; M.F.A., George Mason University; Instructor of Literature.
- Schuetze, George C.** (1963), B.M., University of Wisconsin; Ph.D., New York University; Professor of Performing Arts.
- Schwartz, Herman** (1982), A.B., Harvard College; J.D., Harvard Law School; Professor of Law.
- Schwartz, Lee** (1985), B.A., Bucknell University; M.A., M.Phil., Ph.D., Columbia University; Assistant Professor of International Service.
- Schydowsky, Daniel** (1990), B.A., LL.B., San Marcos University; M.A., Ph.D., Harvard University; Professor of Economics.
- Scott, John C.** (1957), B.S., Springfield College; A.M., Ph.D., University of Chicago; Professor Emeritus of Sociology.
- Scribner, Phillip H.** (1970), B.A., University of Colorado; Ph.D., The Johns Hopkins University; Associate Professor of Philosophy and Religion.
- Seaward, Brian Luke** (1988), B.A., University of Maine; M.S., University of Illinois; Ph.D., University of Maryland; Assistant Professor of Health and Fitness.
- Segal, Morley** (1967), B.A., M.A., San Francisco State University; Ph.D., Claremont Graduate School; Professor of Government and Public Administration.
- Segnan, Romeo A.** (1967), B.S., M.S., University of Turin; Ph.D., Carnegie Institute of Technology; Professor of Physics.*
- Seigle, Jack C.** (1963), B.A., University of Michigan; M.A., University of Montana; Associate Professor of Communication.
- Seldin, Maury** (1965), B.S., M.B.A., University of California at Los Angeles; D.B.A., Indiana University; Professor Emeritus of Business Administration.
- Selman, Victor** (1976), B.A., New York University; M.S., Stevens Institute of Technology; D.Sc., The George Washington University; Associate Professor of Business Administration.
- Semereloff, Chris** (1990), B.A., M.A., Queens College; M.F.A., Brooklyn College; Assistant Professor of Art.
- Shaiko, Jack** (1990), B.A., Ursinus College; M.A., Ph.D., Syracuse University; Assistant Professor of Government.
- Shalleck, Ann** (1984), A.B., Bryn Mawr College; J.D., Harvard University; Professor of Law.*
- Shelley, Louise I.** (1977), B.A., Cornell University; M.A., Ph.D., University of Pennsylvania; Professor of Justice.*
- Shen, Paul** (1977), B.Sc., Ph.D., University of London; M.Sc., Birmingham University; M.B.A., York University; J.D., LL.M., M.S., The American University; C.P.A.; Associate Professor of Business Administration.
- Sheridan, Jerome** (1986), B.A., University of Notre Dame; Ph.D., The American University; Assistant Professor of Economics.
- Siegel, Mary** (1977), A.B., Vassar College; J.D., Yale University; Professor of Law.
- Siegenthaler, Jurg K.** (1974), M.A., Ph.D., University of Berne; Professor of Sociology.
- Silberberg, Alan M.** (1971), B.A., Yale University; M.A., Ph.D., University of Pennsylvania; Professor of Psychology.
- Silva, Stephen** (1990), B.A., Cornell University; M.Phil., Ph.D., Yale University; Assistant Professor of International Service.
- Simon, Rita James** (1983), B.A., University of Wisconsin; Ph.D., University of Chicago; Professor of Law and Justice.
- Simonds, Roger T.** (1958), B.A., M.A., Ph.D., Yale University; Professor of Philosophy and Religion.
- Singer, Thomas** (1990), A.B., Harvard University; M.B.A., Stanford University; Ph.D., The George Washington University; Assistant Professor of International Business.
- Singley, Carol** (1989), B.A., M.A., The Pennsylvania State University; Ph.D., Brown University; Assistant Professor of Literature.
- Skibniewski, Leszek** (1990), M.A., Ph.D., Adam Mickiewicz University, Poland; Visiting Assistant Professor of Language and Foreign Studies.
- Slotnick, Burton M.** (1974), A.B., Ph.D., University of Illinois; Professor of Psychology.
- Smelcer, John B.** (1989), B.S., M.B.A., University of Illinois, Urbana-Champaign; Ph.D., University of Michigan, Ann Arbor; Assistant Professor of Management.
- Smith, Edward C.** (1969), Assistant Professor of Education.
- Smith, Gordon H.** (1947), B.M., Wooster College; M.A., Mills College; Ph.D., University of Iowa; Professor Emeritus of Performing Arts.
- Smith, John H.** (1947), B.A., Iowa State Teachers College; M.B.A., Ph.D., University of Chicago; Professor Emeritus of Mathematics, Statistics, and Computer Science.
- Smith, Sally L.** (1976), A.B., Berington College; M.A., New York University; Professor of Education.
- Smolka, Richard G.** (1962), B.A., M.A., Ph.D., The American University; Professor of Government and Public Administration.
- Smoodin, Eric** (1985), B.A., M.A., Ph.D., University of California, Los Angeles; Assistant Professor of Literature.
- Sollis, Peter** (1990), B.S., Ph.D., University College London; Visiting Scholar of International Service.
- Solomon, Julie Robin** (1988), B.A., University of Maryland; M.A., Ph.D., University of Pennsylvania; Assistant Professor of Literature.
- Sood, James H.** (1975), B.S., The College of William and Mary; B.S., University of Illinois; M.B.A., D.B.A., The George

Washington University; Professor of Business Administration.*

Sparhawk, Carol (1990), B.A., Oberlin College; M.A., Ph.D., University of Michigan; Assistant Professor of Language and Foreign Studies.

Spear, Joseph C. (1990), B.S., Western Maryland College; M.A., The American University; Assistant Professor of Communication.

Spragens, Janet R. (1973), B.A., Wellesley College; M.A., Northwestern University; J.D., The George Washington University; Professor of Law.

Springer, Robert M., Jr. (1974), B.S., West Point; M.A., Stanford University; D.B.A., The George Washington University; Associate Professor of Business Administration.

Stack, Richard (1990), B.A., Indiana University; J.D., University of Missouri; Assistant Professor of Communication.

Stahr, William E. (1963), B.A., M.A., University of Maryland; Ph.D., The George Washington University; Associate Professor of Literature.

Stallings-Roberts, Virginia (1989), B.A., M.S., Northwestern State University; Math.Ed., Ph.D., Assistant Professor of Mathematics.

Steinbrucker, Bruno F. (1965), Certificate, Ph.D., University of Innsbruck; Professor of Language and Foreign Studies.

Story, Charlotte (1985), B.F.A., University of Houston; M.F.A. equivalent, Basic School of Design; Associate Professor of Art.

Stout, Richard T. (1980), B.A., DePaul University; M.S., Columbia University; Professor of Communication.

Stout, Russell, Jr. (1980), A.B., M.A., Ph.D., University of California, Berkeley; Associate Professor of Government and Public Administration.

Streltmatter, Rodger (1979), B.A., Southern Illinois University; M.S., Radford College; Ph.D., The American University; Associate Professor of Communication.

Striner, Herbert E. (1975), B.A., M.A., Rutgers State University; Ph.D., Syracuse University; University Professor Emeritus of Business Administration.

Struelens, Michel (1971), B.A., St. Pierre College; M.A., St. Ignace University; Ph.D., The American University; Professor of International Service.

Suhrke, Astri (1972), B.A., M.A., Ph.D., University of Denver; Professor of International Service.

Summerford, Ben L. (1950), B.A., M.A., The American University; Professor Emeritus of Art.

Sutton, Ronald E. (1973), B.A., Swarthmore College; M.Div., M.S.T., Drew University; Professor of Communication.

Swasy, John L. (1987), B.S., M.B.A., The Pennsylvania State University; Ph.D., University of California, Los Angeles; Associate Professor of Business Administration.

Sykes, Patricia Lee (1989), B.A., Boston College; M.A., Ph.D., Yale University; Assistant Professor of Government.

Tamagna, Frank M. (1958), LL.D., Pavia, Italy; Ph.D., Yale University; Professor Emeritus of Economics.

Tamamoto, Masaru (1990), A.B., Brown University; M.A., Ph.D., The Johns Hopkins University; Assistant Professor of International Service.

Taylor, Alan R. (1964), B.A., Columbia University; M.S., Ph.D., Georgetown University; Professor of International Service.

Taylor, Henry S. (1971), B.A., University of Virginia; M.A., Hollins College; Professor of Literature.

Taylor, Kendall F. (1988), B.A., Fairleigh Dickinson; M.A.T., M.A., Vanderbilt University; M.A., Ph.D., Syracuse University; Assistant Professor of Art.

Teconli, Charles A. (1989), B.S., University of Vermont; M.Ed., Ed.D., University of Cincinnati; Professor and Dean of the School of Education.*

Thanh, Pham Chi (1976), B.Com., Ph.D., University of New South Wales; Professor of Economics.

Thurber, James (1974), B.S., University of Oregon; M.A., Ph.D., Indiana University; Professor of Government and Public Administration.

Tichieb, Mary (1990), B.S., University of Delaware; M.S., Ph.D., Texas A&M University; C.P.A.; Assistant Professor of Accounting.

Trebach, Arnold S. (1972), J.D., LL.B., New England School of Law; M.A., Ph.D., Princeton University; Professor of Justice.

Tuggle, Francis Douglas (1990), S.B., Massachusetts Institute of Technology; M.S., Carnegie Institute of Technology; Ph.D., Carnegie-Mellon University; Professor of Management and Dean of the Kogod College of Business Administration.

Turaj, Frank (1965), B.A., M.A., University of Connecticut; Ph.D., Brown University; Professor of Literature.

Turak, Theodore (1966), B.A., M.A., Western Reserve University; Ph.D., University of Michigan; Professor of Art.

Tyson, Brady B. (1959), B.A., Rice University; B.D., Southern Methodist University; Ph.D., The American University; Professor of International Service.

Unger, Sanford J. (1986), A.B., Harvard College; M.Sc., The London School of Economics and Political Science; Professor and Dean of the School of Communication.

Valentine, Jean (1990), B.A., Radcliffe College; Distinguished Visiting Writer in Residence of Literature.

Van der Slice, Austin (1946), B.A., M.A., University of Kansas; Ph.D., University of Pennsylvania; Professor Emeritus of Sociology.

Vaillake, Katherine (1990), B.A., University of Florida; M.A., The American University; Instructor of Literature.

Vaughn, Robert G. (1972), B.A., J.D., University of Oklahoma; LL.M., Harvard University; Professor of Law.

Viano, Emilio C. (1970), B.A., Gregoriana University; M.A., University of Notre Dame; Ph.D., New York University; Professor of Justice.

Vidal, Pedro (1990), B.A., M.A., The American University; Instructor of Language and Foreign Studies.

Vilakazi, Absalom L. (1965), B.A., Ph.D., University of Natal; M.A., Hartford Seminary Foundation; M.A., Trinity College; Professor Emeritus of International Service and Anthropology.

Volkema, Roger J. (1988), B.A., Western Michigan University; M.S., Ph.D., University of Wisconsin, Madison; Assistant Professor of Business Administration.

Volkening, Fred A. (1988), B.S., Illinois Institute of Technology; M.S., Ph.D., University of Illinois; Assistant Professor of Physics.

Vrenios, Elizabeth Ann (1967), B.M., University of the Pacific; M.M., Northwestern University; Professor of Performing Arts.

Wachtel, Howard M. (1969), B.S., Temple University; M.A., University of Connecticut; Ph.D., University of Michigan; Professor of Economics.

Wadsworth, Lawrence W. (1957), B.S., Centenary College; M.A., Tulane University; Ph.D., The American University; Grazer Memorial Professor Emeritus of International Service.

Walker, Millidge P. (1960), B.A., Williams College; M.A., Ph.D., University of California, Berkeley; Professor Emeritus of International Service and Government and Public Administration.

Wang, Ferdinand (1990), B.A., Ph.D., Rice University; Assistant Professor of Mathematics.

Wapner, Paul (1991), B.A., University of Colorado; M.A., University of Chicago; M.A., Ph.D., Princeton University; Assistant Professor of International Service.

Wassil, Edward A., Jr. (1985), B.S., Fairfield University; M.B.A., Ph.D., University of Maryland; Associate Professor of Business Administration.

Waterhouse, Richard V. (1963), B.A., M.A., Oxford University; Ph.D., The Catholic University of America; Professor Emeritus of Physics.

Waters, Paul F. (1965), B.S., University of Scranton; Ph.D., Rutgers State University; Professor Emeritus of Chemistry.

Waterston, Albert (1970), B.A., New York University; M.A., Columbia University; Professor Emeritus of Economics.

- Weaver, Gary R.** (1968), B.A., M.A., Ph.D., The American University; Professor of International Service.
- Weaver, James H.** (1963), B.S., B.A., University of Arkansas; Ph.D., University of Oklahoma; Professor of Economics.
- Webster, David B.** (1987), B.A., Temple University; M.A., University of Wisconsin; Ph.D., The American University; Visiting Associate Professor of Business Administration.
- Wechsler, Burton D.** (1979), B.A., University of Michigan; J.D., Harvard University; Professor of Law.
- Weeks, Dudley** (1989), B.A., Duke University; M.A., University of Texas; Ph.D., University of Hawaii; Assistant Professor in the School of International Service Washington Semester Program.
- Weiner, Ronald I.** (1972), B.A., University of Maryland; M.S.W., Howard University; D.S.W., University of Maryland; Professor of Justice.
- Weiss, Stanley J.** (1968), B.A., City College of New York; M.A., Ph.D., The Ohio State University; Professor of Psychology.
- Weisbrod, Carol S.** (1973), B.S., Tufts University; M.A., Ph.D., Northwestern University; Associate Professor of Psychology.*
- Welsh, Bernard T.** (1971), B.A., Duke University; LL.B., University of Maryland; LL.M., The George Washington University; Professor Emeritus of Law.
- Welt, Isaac D.** (1964), B.Sc., M.Sc., McGill University; Ph.D., Yale University; Professor of Computer Science and Information Systems.
- Wessell, Nils** (1990), B.A., Stanford University; M.A., Ph.D., Columbia University; Assistant Professor of International Service.
- White, Charles S. J.** (1971), B.A., University of Wisconsin; M.A., University of the Americas; M.A., Ph.D., University of Chicago; Professor of Philosophy and Religion.*
- White, John A.** (1966), B.A., Oberlin College; M.S., Ph.D., Yale University; Professor of Physics.
- Whitley, Sterling D.** (1966), B.S., Tennessee Technical University; B.D., Vanderbilt University; M.Ed., Ed.D., Auburn University; Professor Emeritus of Business Administration.
- Williams, Brett** (1976), B.A., Tufts University; Ph.D., University of Illinois; Associate Professor of Anthropology and American Studies.
- Williams, Joan C.** (1982), B.A., Yale University; J.D., Harvard Law School; M.C.P., Massachusetts Institute of Technology; Professor of Law.
- Williams, Wendy** (1989), B.A., Colby College; M.A., The American University; Assistant Professor of Communication.
- Williamson, Donald T.** (1985), B.A., Hamilton College; M.B.A., Cornell University; J.D., Cornell Law School; LL.M., Georgetown University; C.P.A.; Assistant Professor of Business Administration.
- Willoughby, John A.** (1979), B.A., University of Michigan; B.A., Cambridge University; Ph.D., University of California, Berkeley; Associate Professor of Economics.
- Wilson, Larnan C.** (1968), B.A., Nebraska State University; M.A., Ph.D., University of Maryland; Professor of International Service.
- Wilson, Richard J.** (1989), B.A., DePauw University; J.D., University of Illinois; Associate Professor of Law.
- Winston, Judith** (1990), B.A., Howard University; J.D., Georgetown University; Assistant Professor of Law.
- Wisman, Jon D.** (1971), B.A., University of Maryland; Diplôme, University of Strasbourg; Ph.D., The American University; Associate Professor of Economics.
- Wiseman, Josette A.** (1973), Licencées Lettres, University of Strasbourg; M.A., The American University; Ph.D., The Catholic University of America; Associate Professor of Language and Foreign Studies.
- Wieniewski, Stanley C.** (1989), B.A., Allentown College; M.A., The Catholic University of America; J.D., University of Maryland; Ph.D., The Catholic University of America; Assistant Professor of Management.
- Wolfson, Lewis W.** (1969), B.A., Dartmouth College; M.S., Columbia University; M.A., Harvard University; Professor of Communication.
- Wrathall, C. Richard** (1974), B.S., M.S., Ph.D., University of Utah; Associate Professor of Biology.
- Wu, Angela** (1980), B.S., Villanova University; M.S., Cornell University; Ph.D., University of Maryland; Professor of Computer Science and Information Systems.
- Wythe, Zoe** (1948), B.A., M.A., The George Washington University; Associate Professor Emerita of Language and Foreign Studies.
- Yamauchi, Joanne S.** (1970), B.A., Coucher College; M.A., Columbia University; Ph.D., Northwestern University; Professor of Communication.
- Yarnall, Shirley** (1959), B.A., Wilson College; Associate Professor Emerita of Literature.
- Yates, Brian T.** (1976), B.A., University of California, San Diego; Ph.D., Stanford University; Associate Professor of Psychology.
- Young, Gloria** (1988), B.A., Trinity University; M.A., University of Houston; Ph.D., University of Texas, Austin; Assistant Professor of Sociology.
- Young, Louise M.** (1958), B.A., Ohio Wesleyan University; M.A., Ph.D., The Pennsylvania State University; Professor Emerita of Literature.
- Zaelke, Durwood** (1990), B.A., University of California; J.D., Duke University; Visiting Professor of Law.
- Zeharna, Rhonda** (1990), M.Ed., Ed.D., Columbia University; Assistant Professor of Communication.
- Zakhar, Beatrix A.** (1991), B.A., Wilkes College; M.A., Ph.D., University of Pennsylvania; Assistant Professor of Justice in Washington Semester Program.
- Zapatka, Francis E.** (1959), A.B., Fordham University; M.A., Trinity College; Ph.D., The Catholic University of America; Associate Professor of Literature.
- Zauderer, Donald G.** (1970), B.S., The Ohio State University; M.A., Kent State University; Ph.D., Indiana University; Associate Professor of Government and Public Administration.
- Zelle, Ann** (1986), B.A., Mount Holyoke College; M.A., Pius XII Institute, Italy; Assistant Professor of Communication.

Professional Librarians with Full-Time Faculty Status

- Arnold, George D.** (1971), B.A., Seminary of St. Pius X; M.L.S., University of Maryland; Librarian.
- Balsb, Mary Alice** (1991), B.A., St. Joseph College; Ed.M., State University of New York at Buffalo; M.L.S., Rutgers State University; Assistant Librarian I.
- Blaes, Evelyn B.** (1980), Scottish Leaving Certificate at Higher Level, Stromness Academy; M.A., Edinburgh University; M.L.S., Simmons College; Associate Librarian.
- Carroll, Elizabeth** (1991), B.A., Connecticut College; M.S., University of Illinois, Urbana-Champaign; Assistant Librarian I.
- Caterson, Martha A.** (1989), B.A., M.L.S., Rutgers State University; Assistant Librarian I.
- Chase, Linda S.** (1985), A.B., Oberlin College; M.S.L.S., Columbia University; Assistant Librarian.
- Dennis, Donald D.** (1971), A.B., Bowdoin College; B.A., M.L.S., University of California, Berkeley; Librarian Emeritus.
- Flannery, Patrick** (1990), B.A., University of Scranton; M.L.S., Syracuse University; Assistant Librarian II.
- Flug, Janice Lynn** (1972), B.A., Hamline University; M.L.S., University of Maryland; M.P.A., The American University; Librarian.
- Goldstein, Helen** (1985), B.A., The American University; M.L.S., University of Maryland; Assistant Librarian.
- Heintze, James R.** (1969), B.S., Loyola College; M.A., The American University; M.L.S., University of Maryland; Librarian.
- Heywood, John G.** (1987), B.S., Northern Arizona University; M.A., J.D., Washington College of Law; Assistant Law Librarian.
- Hilts, Sharon L.** (1989), B.A., Ohio University; M.L.S., University of Michigan; Assistant Librarian I.
- Ives, Helen** (1991), B.A., Swarthmore College; M.A., University of Pittsburgh; M.L.S., Rutgers State University; Assistant Librarian II.
- Kebae, Patrick E.** (1973), B.C.S., Seattle University; J.D., M.L.Lib., University of Washington; Professor of Law and Director of Law Library.

- Larabee, Robert** (1991), B.A., University of Nebraska at Lincoln; M.L.S., Louisiana State University; Assistant Librarian I.
- McCann, Gary Lee** (1979), B.A., California State University at Fullerton; J.D., Willamette University; M.L.S., University of Texas; Associate Director of Law Library.
- Milam, Margaret Mitchell** (1971), B.A., M.L.S., University of Maryland; J.D., The American University; Associate Director of Law Library.
- Mints, Mary M.** (1984), B.A., Davidson College; M.A., North Carolina State University; M.S.L.S., University of North Carolina at Chapel Hill; Associate Librarian.
- Neilson, Susan H.** (1968), B.A., Keuka College; M.S.L.S., Drexel Institute of Technology; Associate Librarian.
- Nibley, Elizabeth B.** (1988), B.A., The George Washington University; M.L.S., University of Maryland; Assistant Librarian I.
- Reynolds, Sally-Jo** (1965), B.A., University of Michigan; M.S.L.S., Columbia University; Librarian.
- Ryan, William T.** (1990), B.A., Boston University; M.L.S., University of Maryland; J.D., Washington College of Law; Assistant Law Librarian.
- Sandique-Owens, Amelia A.** (1980), B.S., M.A., University of Santo Tomás, Manila; M.S., Georgetown University; M.S.L.S., The Catholic University of America; Associate Law Librarian.
- Schwartz, Marla Joan** (1988), B.A., Boston University; M.S., Simmons College; M.Phil., The George Washington University; Associate Law Librarian.
- Shapiro, Martin P.** (1990), B.A., University of Missouri; M.A., University of Kansas; M.L.S., University of Pittsburgh; Assistant Librarian II.
- Vogelsong, Diana** (1975), B.A., Kalamazoo College; M.L.S., University of Maryland; M.A., The American University; Librarian.
- Wand, Patricia** (1989), B.A., Seattle University; M.A.T., Antioch Graduate School; A.M.L.S., University of Michigan; University Librarian.
- Zich, Joanne A.** (1983), A.B., Washington University; M.S., Columbia University; Law Librarian.

1990-1991 Adjunct Faculty

The faculty list below covers the 1990-1991 academic year only.

- Aaron, Robert** (1990), B.A., M.A., University of Illinois; Adjunct Professor of Communication.
- Aaronson, Susan** (1988), B.A., Harpur College; M.A., Columbia University; Lecturer of Business Administration.
- Abbott, Paola** (1988), M.A., The Catholic University of America; Professorial Lecturer of Language and Foreign Studies.
- Acevedo, Domingo** (1985), J.D., Universidad Buenos Aires; M.C.L., Georgetown Law Center; Ph.D., University of Cambridge; Adjunct Professor of Law.
- Adams, David G.** (1986), B.A., University of Southwestern Louisiana; J.D., New York University; Professorial Lecturer of Law.
- Alaghband, Hassan** (1989), B.S., M.B.A., Boston University; J.D., The American University; Lecturer of Law.
- Alden, Judith A.** (1987), B.S., Kent State University; M.A., Northeastern University; M.B.A., The George Washington University; Lecturer of Business Administration.
- Allin, Erika** (1990), B.A., State University of New York; Ph.D., The American University; Professorial Lecturer of Government.
- Allison, Linda** (1991), B.S., Indiana University; M.M., The University of Washington; Professorial Lecturer of Performing Arts.
- Alpern, Anita** (1979), B.A., University of Wisconsin; Distinguished Adjunct Professor in Residence of Government and Public Administration.
- Anderson, Tammy L.** (1987), M.A., University of Pittsburgh; M.S., The American University; Lecturer of Justice, Law and Society.
- Anthony-Buckman, Jane** (1985), B.F.A., Marymount College of Virginia; M.F.A., The American University; Professorial Lecturer of Art.
- Aplin, Donald** (1987), B.A., Pomona College; J.D., Antioch University; Professorial Lecturer of Law.
- Arnold, George** (1987), B.A., Seminary of St. Pius X; M.L.S., University of Maryland; Adjunct Professor of Communication.
- Arnsen, Cynthia J.** (1991), B.A., Wesleyan University; M.A., Ph.D., The Johns Hopkins University; Professorial Lecturer of International Service.
- Arwanti, Nihaya** (1989), B.S., The American University of Beirut; M.S., The American University; Lecturer of Mathematics and Statistics.
- Ashbrook, Arthur** (1991), B.S., Haverford College; Ph.D., M.I.T.; Adjunct Professor of Economics.
- Atkins, Reynolds** (1988), B.S., University of Kansas; M.S., The American University; Lecturer of Business Administration.
- Austern, David T.** (1980), B.A., University of Pennsylvania; LL.B., Yale University; Professorial Lecturer of Law.
- Auten, Janet** (1991), B.A., University of Michigan; M.A., University of Missouri; M.A., Ph.D., Bowling Green State University; Professorial Lecturer of Literature.
- Baer, Deborah** (1989), B.S., B.A., M.S., The American University; Lecturer of Accounting.
- Bair, Gary** (1989), B.A., Tulane University; J.D., Georgetown University; Adjunct Professor of Law.
- Ball, Larry** (1990), B.A., Oberlin College; Ph.D., University of Virginia; Professorial Lecturer of History.
- Band, Joseph** (1975), B.S., M.A., J.D., The American University; Professorial Lecturer of Business Administration.
- Baron, Dennis** (1990), B.S., Fordham University; M.A., Columbia University; Lecturer of Economics.
- Bart, Marilyn B.** (1989), B.A., University of Maryland; M.A.T., Fairleigh Dickinson University; M.A., New York University; Lecturer of Literature.
- Beard, DeLawrence** (1991), B.A., University of Missouri; J.D., University of Baltimore; LL.M., Georgetown University; Professorial Lecturer of Law.
- Bedington, Anne** (1990), B.A., Brown University; Ph.D., Cornell University; Adjunct Professor of Government.
- Bell, Rosalyn** (1991), J.D., National University; LL.M., University of Virginia; Adjunct Professor of Law.
- Bemrich, Yukiko** (1991), B.A., Tokyo National University of Education; Lecturer of Language and Foreign Studies.
- Benson, Sandra D.** (1989), B.A., Baylor University; M.A., J.D., The American University; Lecturer of Law.
- Berenson, William M.** (1984), A.B., Dartmouth College; M.A., Ph.D., Vanderbilt University; Professorial Lecturer of Law.
- Bermant, Ozzie** (1991), B.S., City University of New York; M.S., The American University; Professorial Lecturer of Public Administration.
- Bernsen, Sam** (1984), B.A., New York State University; LL.B., Brooklyn Law School; Adjunct Professor of Law.
- Bershon, Barbara L.** (1987), B.S., M.A., The Ohio State University; Ph.D., University of Maryland; Professorial Lecturer of Psychology.
- Betts, Madeline** (1989), Emeriti-In-Residence, Language and Foreign Studies.
- Biggs, Gonzalo** (1988), M.A., The George Washington University; J.D., University of Chile; Adjunct Professor of International Service.
- Bjork, John R.** (1985), B.S., Western Michigan University; M.A., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Black, Stanley P.** (1990), B.A., Central Bible College; Lecturer of Education.
- Blodgett, Steven A.** (1981), B.S., M.A., Central Michigan University; Professorial Lecturer of International Service.
- Bowen, Susan** (1985), B.B.A., The George Washington University.
- Brackshaw, Susan L.** (1986), B.A., University of Massachusetts; J.D., The American University; Professorial Lecturer of Law.
- Brantley, Chris J.** (1989), B.A., Mercer University; M.A., The American University; J.D., The American University; Lecturer of Law.
- Brat, David** (1991), B.A., Hope College; M.Div., Princeton Theological Seminary; Lecturer of Economics.
- Braxton, Phyllis** (1990), B.A., M.A., The American University; Ph.D., The Catholic University of America; Lecturer of Literature.
- Breen, Barry** (1990), A.B., Princeton University; J.D., Harvard Law School; Professorial Lecturer of Law.
- Brentley, Joyce Ann** (1989), A.B., Oberlin College; J.D., The American University; LL.M., The George Washington University; Professorial Lecturer of Literature.
- Brice, Luther K., Jr.** (1986), B.A., Harvard University; M.A., Dartmouth College; Ph.D., Duke University; Adjunct Professor of Chemistry.
- Brouard, Scott F.** (1985), A.A., Montgomery College; B.A., M.A., The American University; Lecturer of Art.
- Brown, Antoinette** (1989), B.A., Western Michigan University; M.A., Ph.D., University of Michigan; Scholar-In-Residence, Anthropology.
- Brown, David C.** (1977), B.A., The American University; M.A., M.Phil., Ph.D., Rutgers State University; Adjunct Professor of Government and Public Administration.
- Brown, H. Lowell** (1991), B.A., Syracuse University; J.D., Antioch University; Lecturer of Law.
- Brown, John** (1990), B.B.A., St. John's University; M.B.A., New York University; Professorial Lecturer of Accounting.

- Bryan, William** (1990), Lecturer of Public Administration.
- Buck, Paula** (1989), B.A., Warren Wilson College; M.A., Ph.D., Ohio University; Professorial Lecturer of Literature.
- Buckman, Jane** (1990), B.A., Marymount University; M.F.A., The American University; Lecturer of Art.
- Bugajski, Janus** (1990), B.A., University of Kent; M.Phil., London School of Economics; Lecturer of International Service.
- Burke, Sandra** (1990), B.A., Michigan State University; M.B.A., Ph.D., University of Michigan; Professorial Lecturer of Marketing.
- Burns, Bruce** (1989), B.A., University of Hartford; Professorial Lecturer of Communication.
- Burns, William** (1991), B.S., University of South Alabama; Professorial Lecturer of Communication.
- Burr, William** (1990), B.A., M.A., Ph.D., Northern Illinois University; Professorial Lecturer of History.
- Burrell, Dean L.** (1990), B.S., Cornell University; J.D., The American University; Lecturer of Law.
- Butaine, Catherine** (1991), B.A., M.P.A., Yale University; Lecturer of Public Administration.
- Butterfield, Elena** (1990), B.A., University of Cincinnati; M.A., Rutgers State University; Lecturer of Literature.
- Bykov, Joseph** (1987), Special Music School, Kiev; Tchaikovsky Conservatory of Music; Adjunct Professor of Performing Arts.
- Byekwaso, Serapio B.S.**, Makerere University; M.S., The American University; Lecturer of Statistics.
- Byron, Ann E.** (1989), A.B., Douglass College; M.A., Trenton State College; M.Ed., Ph.D., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Byrum, Marni E.** (1988), B.A., Virginia Polytechnic Institute and State University; J.D., Pepperdine University; Lecturer of Law.
- Canan, Russell F.** (1987), B.A., Syracuse University; J.D., Antioch University; Professorial Lecturer of Law.
- Carlson, Mary** (1991), B.A., Alverno College; M.S., University of Wisconsin; Lecturer of Education.
- Carnovale, Frank** (1987), B.M., M.M., Peabody Conservatory; Professorial Lecturer of Performing Arts.
- Carter, Patricia** (1990), B.A., M.A., M.A., The George Washington University; Lecturer of Literature.
- Carvely, Susan** (1990), B.A., M.A., Washington University; Ph.D., The George Washington University; Professorial Lecturer of History.
- Cavanaugh, Margaret** (1991), B.S., University of Pittsburgh; Ph.D., The Catholic University of America; Adjunct Professor of Chemistry.
- Cave, William** (1991), B.A., LL.B., University of Maryland; Professorial Lecturer of Law.
- Chailfoux, Jeanne** (1963), Diploma, Curtis Institute of Music; Lecturer of Performing Arts.
- Chambers, Sharon M.** (1991), B.A., University of Maryland; J.D., Howard University; Lecturer of Law.
- Chasin, Steven** (1990), B.A., M.A., The George Washington University; Ph.D., University of Maryland; Professorial Lecturer of Economics.
- Chatterjee, Uaasi** (1981), B.A., M.A., University of Kent at Canterbury; Ph.D., McGill University; Professorial Lecturer of Language and Foreign Studies.
- Chen, Ling** (1989), B.S., M.S., Tongji University; Lecturer of Mathematics and Statistics.
- Choudhry, Yusuf** (1991), B.E., East Pakistan Engineering University; M.B.A., Ph.D., Syracuse University; Adjunct Professor of Business Administration.
- Chretien, Annemarie** (1989), M.A., The American University; Lecturer of Language and Foreign Studies.
- Cirafici, Peter** (1981), A.A.S., Brooklyn College; B.S.B.A., University of Bridgeport; M.S., University of Miami; Professorial Lecturer of Business Administration.
- Clancy, James** (1990), B.A., University of Dayton; M.A., Pepperdine University; M.S., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Clark, Margaret** (1988), B.A., Columbia University; J.D., The Catholic University of America; Lecturer of Law.
- Clark, Michael P.** (1989), B.S., James Madison University; Lecturer of Health and Fitness.
- Claudy, Lynn D.** (1984), B.A., B.S., Washington University; M.S., Illinois Institute of Technology; Professorial Lecturer of Physics.
- Clayton, Jutta** (1990), B.S., Humboldt University; Lecturer of Language and Foreign Studies.
- Closson-Buck, Paula** (1990), B.A., Warren Wilson College; M.A., Ph.D., Ohio University; Professorial Lecturer of Literature.
- Collar, Kevin** (1988), B.A., University of Wisconsin; Lecturer of Performing Arts.
- Collins, Jacob** (1990), B.A., Central Washington State University; M.A., University of Washington; Lecturer of Education.
- Collins, Karen** (1990), B.A., Rutgers State University; M.A., The American University; Professorial Lecturer of Communication.
- Collins, Margot** (1984), M.M., University of Maryland; Professorial Lecturer of Performing Arts.
- Comarow, Murray** (1976), LL.B., National University Law School; Distinguished Adjunct Professor in Residence, Government and Public Administration.
- Condon, John** (1990), B.S., Iona College; M.S., John Carroll University; Ph.D., The American University; Professorial Lecturer of Physics.
- Connolly, Joseph G., Jr.** (1982), B.A., Manhattan College; J.D., Georgetown University; Adjunct Professor of Law.
- Connor, Ann M.** (1982), B.S., St. Joseph College; M.S., Virginia Polytechnic Institute and State University; Adjunct Professor of Health and Fitness.
- Contos, Harry** (1977), B.S., Northeastern University; M.S., The George Washington University; Adjunct Professor of Computer Science and Information Systems.
- Cook, Nancy** (1990), B.A., The Ohio State University; J.D., Georgetown University; Professorial Lecturer of Literature.
- Cooke, Timothy W.** (1985), B.S., George Mason University; M.A., Ph.D., The Johns Hopkins University; Lecturer of Government and Public Administration.
- Cooley, William** (1991), B.S., M.S., Ph.D., University of Wisconsin; Professorial Lecturer of Computer Science and Information Systems.
- Cooper, Ronald** (1991), B.A., The Evergreen State College; Ph.D., The American University; Professorial Lecturer of Economics.
- Corredor, Mary** (1990), B.A., Southern Illinois University; M.A., Illinois State University; Lecturer of Language and Foreign Studies.
- Cosman, Catherine** (1991), B.A., Grinnell College; M.A., Brown University; Adjunct Professor of Justice, Law and Society.
- Cotter, James T.** (1978), B.A., Marquette University; Scholar-in-Residence, International Service.
- Cowgill, Kenneth** (1989), B.S., University of Maryland; J.D., Georgetown University; Lecturer of Law.
- Criml, Elizabeth** (1989), B.S., University of Kansas; M.S., The American University; Lecturer of Justice.
- Crisman, Louise T.** (1984), B.A., Middlebury College; M.A., The American University; Ph.D., University of Maryland; Professorial Lecturer of Language and Foreign Studies.
- Creech, William E.** (1989), Lecturer of Health and Fitness.
- Criml, Elizabeth** (1990), B.S., University of Kansas; M.S., The American University; Lecturer of Government and Public Administration.

- Crooks, Alan** (1989), A.B., The College of Idaho; M.A., Utah State University; Ph.D., University of Utah; Professorial Lecturer of Literature.
- Crosby, Robert D.** (1986), B.A., University of Virginia; M.S., University of Arizona; Ph.D., University of California, Los Angeles; Professorial Lecturer of Mathematics.
- Crowl, Vaughn** (1987), B.S., Frostburg State College; M.Ed., C.A.S., M.S., Johns Hopkins University; Ph.D., The American University; Professorial Lecturer of Education.
- Crowley, Abby** (1990), B.S., Boston University; M.A., The Catholic University of America; Professorial Lecturer of Education.
- Cullen, Libby** (1990), A.A., Marjorie Webster Junior College; Lecturer of Communication.
- Curelop, Martine** (1989), Licence D'Anglais, University of Paris; Lecturer of Language and Foreign Studies.
- Currie, Robert D.** (1988), B.A., DePauw University; M.A., University of Illinois; Lecturer of Literature.
- Dalali, Hadi** (1983), B.S., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Dale, Charles J.** (1986), B.S., Kent State University; M.S., University of Georgia; M.D.S., Ph.D., Georgia State University; Professorial Lecturer of Business Administration.
- Danner, Mona** (1991), B.A., University of Missouri; M.A., Sam Houston State University; Lecturer of Sociology.
- Darr, Ann** (1982), B.A., State University of Iowa; Adjunct Professor of Literature.
- Darrie, Janet B.** (1985), B.A., University of Delaware; M.F.A., The Maryland Institute; Professorial Lecturer of Communication.
- Davidow, Joel** (1988), A.B., Princeton University; LL.B., Columbia Law School; Adjunct Professor of Law.
- Davidson, Gordon** (1991), B.A., University of Massachusetts; Adjunct Professor of Public Affairs.
- Davis, Barbara** (1989), B.A., Yale College; Professorial Lecturer of Communication.
- Davis, Beth** (1990), B.F.A., Ohio University; Lecturer of Performing Arts.
- Davis, Stephen H.** (1989), B.A., Lincoln University; M.B.A., The American University; J.D., The George Washington University; Professorial Lecturer of Government.
- Day, James M.** (1984), B.A., Piedmont College; LL.B., The American University; Adjunct Professor of Law.
- DeCapitani, Renata** (1990), J.D., University of Milan; Professorial Lecturer of Language and Foreign Studies.
- De Geus, Jeannette** (1990), B.A., M.A., The University of Leiden; Lecturer of Language and Foreign Studies.
- De Jong, David S.** (1983), B.A., University of Maryland; J.D., Washington and Lee University; LL.M., Georgetown University; Adjunct Professor of Business Administration.
- Delaney, John Joseph** (1978), B.S.S., LL.B., Georgetown University; Adjunct Professor of Law.
- Deflin, Stephen M.** (1985), B.S., University of Maryland; Lecturer of Communication.
- Deille, Bianca D.** (1989), B.A., University of Arkansas; M.B.A., University of North Carolina; Lecturer of Communication.
- Dembling, Ross W.** (1986), B.A., Miami University; J.D., The George Washington University; Lecturer of Business Administration.
- Denny, Susan** (1978), Associate B.A., Colby Junior College; Adjunct Professor of Performing Arts.
- Deodo, Paula** (1991), B.A., Kalamazoo College; M.A., University of Chicago; Professorial Lecturer of Justice, Law and Society.
- Deutsch, Bonnie M.** (1990), B.S., Cornell University; J.D., American University; Lecturer of Law.
- Dewitt, Robert N.** (1988), B.S., University of Southwest Louisiana; M.S., Ph.D., The American University; Adjunct Professor of Physics.
- Deyling, Robert** (1990), Professorial Lecturer of Justice, Law and Society.
- Diamond, David** (1989), B.A., University of Pennsylvania; Lecturer of Communication.
- DiFonzo, James H.** (1986), B.S., St. Joseph's College; M.A., J.D., University of Virginia; Professorial Lecturer of Law.
- DiMisa, Samuel T.** (1979), A.B., Georgetown University; M.S., M.B.A., The American University; Adjunct Professor of Business Administration.
- Ditto, William** (1990), B.S., University of California; Ph.D., Clemson University; Professorial Lecturer of Physics.
- Dotter, Wilbur N.** (1988), B.S., Wilkes College; M.S.T., Rutgers State University; Lecturer of Mathematics.
- Douglas, James S.** (1985), Lecturer of Communication.
- Duncan, Cameron** (1991), B.A., Stanford University; M.A., University of Texas; Ph.D., The American University; Professorial Lecturer of International Service.
- Durst, Samantha** (1991), B.A., University of Chicago; Lecturer of Government.
- Dutschke, Cynthia** (1988), B.S., Memphis State University; M.A., Vanderbilt University; Ph.D., University of North Texas; Professorial Lecturer of Mathematics and Statistics.
- Dwyer-Southern, Kathy** (1984), B.A., M.A., University of Wisconsin; Adjunct Professor of Performing Arts.
- Dye, Barbara** (1990), B.S., University of Maryland; M.S., George Mason University; Lecturer of Health and Fitness.
- Earl, Lynn Marie** (1991), Virginia Polytechnic Institute and State University; M.B.A., The College of William and Mary; Lecturer of Business Administration.
- Eaton, Allen T.** (1990), B.S., West Virginia State; J.D., The George Washington University; Professorial Lecturer of Law.
- Edmisten, Jane M.** (1978), B.A., M.A., University of North Carolina; J.D., The George Washington University; Adjunct Professor of Law.
- Effros, Robert C.** (1982), A.B., LL.B., Harvard University; LL.M., Georgetown University; Adjunct Professor of Law.
- Eldelman, Lori J.** (1987), B.A., University of Maryland; M.A., The George Washington University; Lecturer of Literature.
- Eig, Jonathan** (1990), B.A., Brown University; M.A., The American University; Lecturer of Communication.
- Einhorn, Raymond** (1988), B.S., University of Florida; M.S., University of Illinois; Adjunct Professor of Business Administration.
- Eisele, Victoria** (1984), B.S., Bethany College; Lecturer of Computer Science and Information Systems.
- Elliott, Teresa** (1982), B.A., M.C.A., The Catholic University of America; Ph.D., University of Maryland; Professorial Lecturer of Public Administration.
- Enrico, Maria** (1981), B.A., Columbia University; M.A., The Catholic University of America; Lecturer of Language and Foreign Studies.
- Escalante, Andres** (1991), B.A., M.A., The American University; Lecturer of Economics.
- Eskew, Henry L.** (1985), B.S., M.S., Georgia Institute of Technology; M.A., Ph.D., The American University; Professorial Lecturer of Government and Public Administration.
- Esquivel, Ralph** (1991), Lecturer of Education.
- Evans, Jay A.** (1982), B.A., Stetson University; M.A., Duke University; Professorial Lecturer of Literature.
- Eyck, Gunther** (1957), B.A., Alma College; M.A., Ph.D., New York University; M.S., Columbia University; Adjunct Professor of International Service.
- Fairbairn, James** (1979), B.S., J.D., The American University; Professorial Lecturer of Business Administration.
- Falbaum, Bertram** (1991), A.A., Los Angeles City College; B.S., California State University; M.P.A., Syracuse University; Adjunct Professor of Justice, Law and Society.
- Falzon, Alicia M. de la Torre** (1983), B.A., The Catholic University of America; M.A., The American University; Ph.D.,

The George Washington University; Professorial Lecturer of Language and Foreign Studies.

Farber, Theodore M. (1986), B.S., Brooklyn College of Pharmacy; Ph.D., Medical College of Virginia; Adjunct Professor of Chemistry.

Farkas, Gerald (1991), B.A., University of Miami; M.S., Florida State University; Adjunct Professor of Justice, Law and Society.

Farren, Caela (1985), B.A., Mundelcn College; Ph.D., Case Western Reserve University; Lecturer of Government and Public Administration.

Farsakh, Yusuf (1989), B.A., American International College; M.A., University of Massachusetts; Lecturer of Mathematics and Statistics.

Faulkner, Heather C. (1973), B.A., University of Birmingham (England); M.A., The George Washington University; Professorial Lecturer of Literature.

Fetter, Steven M. (1988), A.B., University of Michigan; J.D., University of Michigan; Professorial Lecturer of Law.

Filetti, Jean Smith (1983), B.S., Clarion State College; M.A., Ph.D., University of Toledo; Professorial Lecturer of Literature.

Fink, Marcy (1990), B.A., University of Michigan; M.A., Ed.S., Stanford University; Professorial Lecturer of Education.

Finn, Jeffrey (1983), B.A., University of Michigan; M.S., The American University; Professorial Lecturer of Communication.

Finn, Richard (1989), J.D., LL.B., Harvard University; Diplomat-in-Residence, School of International Service.

Finn, Terence (1991), B.A., Williams College; M.A., University of Sussex; Ph.D., Georgetown University; Professorial Lecturer of Government.

Fishman, Anne (1990), B.A., Lake Forest College; M.A., University of Chicago; Ph.D., Northwestern University; Professorial Lecturer of Education.

Fishman, Clifford (1989), B.A., University of Rochester; J.D., Columbia University; Adjunct Professor of Law.

Flowers, David (1970), B.M., M.M., University of Michigan; D.M.A., The Catholic University of America; Professorial Lecturer of Performing Arts.

Flury, William (1990), B.A., Princeton University; M.S., The American University; Adjunct Professor of Computer Science and Information Systems.

Flynn, Daniel (1991), B.A., University of Santa Clara; J.D., Georgetown University; Professorial Lecturer of Business Administration.

Fogash, Kenneth A. (1968), B.S., The Pennsylvania State University; M.B.A., The George Washington University; Professorial Lecturer of Computer Science and Information Systems.

Fols, Andrew (1989), A.B., Georgetown University; M.A., University of Essex; J.D., Georgetown University Law Center; Lecturer of Law.

Foley, Maureen (1991), B.S., University of Maryland; M.S., The American University; Lecturer of Computer Science and Information Systems.

Footo, Cornelius (1990), B.A., Wesleyan University; M.S.J., Northwestern University; Professorial Lecturer of Communication.

Ford, Alan (1990), B.A., Swarthmore College; M.S., The American University; Professorial Lecturer of Computer Science and Information Systems.

Ford, Harry J. (1987), B.S., Southeastern University; M.B.A., Atlanta University; M.P.A., Ph.D., Nova University; Professorial Lecturer of Business Administration.

Frank, Jane (1988), B.A., M.S., M.B.A., Long Island University; M.S., Georgetown University; Adjunct Professor of Communication.

Frankel, Benjamin (1990), B.A., Tel Aviv University; M.A., Ph.D., University of Chicago; Lecturer of Government.

Frazier, Thomas (1986), B.S., M.A., Ohio University; Ph.D., The American University; Lecturer of Government and Public Administration.

Fredrickson, Bruce A. (1986), B.A., Dartmouth College; J.D., The George Washington University; Professorial Lecturer of Law.

Freed, Rachel (1990), B.A., The George Washington University; M.A., The American University; Lecturer of Communication.

Freedman, Jessica (1990), B.A., Syracuse University; M.A., The American University; J.D., Western New England College; Professorial Lecturer of Literature.

Friedman, Joseph (1989), B.A., University of Maryland; M.A., The Catholic University of America; J.D., Howard University; Lecturer of Law.

Friedman, Neal J. (1989), B.A., The Pennsylvania State University; J.D., The American University; Professorial Lecturer of Law.

Frymer-Blumfield, Hanita (1988), B.A., Barnard College; M.A., Ph.D., The American University; Scholar-in-Residence, Government.

Funke, Odella (1991), B.A., The Catholic University of America; M.A., Ph.D., University of Virginia; Adjunct Professor of Government.

Furgol, Mary (1990), M.A., Ph.D., University of Edinburgh; Professorial Lecturer of History.

Furlong, Deborah K. (1990), B.A., Butler University; M.A., Ph.D., The American University; Professorial Lecturer of International Service.

Gajewski, Piotr (1989), B.M., M.M., University of Cincinnati; Orchestra Conductor-In-Residence.

Galbraith, Carol (1991), B.A., Vassar College; J.D., Arizona State University; Professorial Lecturer of Justice, Law and Society.

Gamba, Peter (1990), B.A., The American University; Lecturer in the School of Communication.

Garcia, Eloy (1990), B.S., M.A., Georgetown University; Lecturer of Economics.

Garrett, Randy (1990), B.S., Massachusetts Institute of Technology; M.S., Ph.D., Florida Atlantic University; Professorial Lecturer of Computer Science and Information Services.

Gennaco, Michael J. (1987), B.A., Dartmouth College; J.D., Stanford University; Lecturer of Law.

Gezmu, Misrak (1988), B.S., M.S., Portland University; Lecturer of Mathematics and Statistics.

Ghareeb, Edmund (1982), B.A., American International College; M.A., Ph.D., Georgetown University; Professorial Lecturer of International Service.

Ghazzal, Ahmad (1990), B.A., M.A., The American University of Beirut; Ph.D., University of Paris; Professorial Lecturer of International Service.

Gibbons, Mary Anne (1988), B.A., Mundelcn College; M.A., Northwestern University; J.D., The Catholic University of America; Lecturer of Law.

Gindhart, Patricia S. (1972), A.B., University of Pennsylvania; Ph.D., University of Texas; Adjunct Professor of Anthropology.

Gingold, Diane (1989), B.A., Rutgers State University; M.P.A., Auburn University; Professorial Lecturer of Art.

Ginsburg, Jessica (1991), A.B., Princeton University; M.A., Rutgers State University; J.D., University of Virginia; Lecturer of Law.

Goldberg, Donald (1990), B.A., Connecticut College; M.A., The American University; Professorial Lecturer of Communication.

Golden, Karina (1989), B.A., Lynchburg College; M.A., The American University; Lecturer of Education.

Goldman, Ralph (1990), B.A., New York University; M.A., Ph.D., University of Chicago; Adjunct Professor of International Service.

Gossmann, Patricia (1991), B.A., Kalamazoo College; M.A., University of Chicago; Professorial Lecturer of Justice, Law and Society.

Gramckrow, Heike (1990), J.D., University of Hamburg; Lecturer of Justice, Law and Society.

- Haaga, Candice** (1991), B.A., Stanford University; M.A., Ph.D., University of Southern California; Professorial Lecturer of Psychology.
- Hackett, Beatrice** (1991), B.A., The George Washington University; M.A., Ph.D., The American University; Scholar-in-Residence, Anthropology.
- Hackett, Linda** (1990), B.S., Edinboro State College; M.Ed., Edinboro University; Lecturer of Mathematics and Statistics.
- Hadar, Leon T.** (1988), B.A., M.Sc., Hebrew University; M.Sc., M.I.A., Columbia University; Lecturer of Government and International Service.
- Haendel, Dan** (1978), B.A., M.A., M.B.A., Ph.D., J.D., University of Pennsylvania; Adjunct Professor of International Service.
- Haines, Diana** (1987), B.A., Oberlin College; M.A., Antioch School of Law; J.D., The George Washington University; Lecturer of Law.
- Hamilton, Bernard** (1990), B.A., Lancaster University; M.A., London University; Professorial Lecturer of Government.
- Hansen, Michael** (1986), A.B., St. Olaf College; M.A., University of Illinois; M.P.A., Ph.D., University of Southern California; Professorial Lecturer of Public Administration.
- Harnden, Eric** (1988), B.S., M.S., The American University; Lecturer of Physics.
- Harris, Christian** (1990), M.M., The George Washington University; Lecturer of Performing Arts.
- Harris, David R.** (1973), B.S., B.A., Carnegie Mellon University; M.A., Texas Christian University; Ph.D., The Ohio State University; Ph.D., Texas Christian University; Adjunct Professor of Computer Science and Information Systems.
- Harris, James** (1990), B.A., Western State College; M.B.A., University of Minnesota; M.Div., Southwestern Baptist Theological Seminary; Professorial Lecturer of Accounting.
- Harrison, Stephanie** (1990), B.A., University of Rochester; J.D., The Catholic University of America; Professorial Lecturer of Government.
- Harter, Philip J.** (1989), A.B., Kenyon College; M.A., J.D., University of Michigan; Adjunct Professor of Law.
- Hasan, Hugh J.** (1985), B.A., Georgetown University; Adjunct Professor of Performing Arts.
- Havens, Sandra** (1991), B.S., University of Maryland; Lecturer of Health Fitness.
- Hayes, Shelly D.** (1990), B.A., Bryn Mawr College; J.D., The George Washington University; Lecturer of Law.
- He, Guo Qing** (1990), B.A., East China Normal University; Lecturer of Language and Foreign Studies.
- Heintzelman, Wade** (1988), B.S., The American University; Lecturer of Health and Fitness.
- Hemple, William** (1984), B.A., Syracuse University; M.A., Ph.D., The American University; Adjunct Professor of Justice.
- Hendry, Tatjana** (1989) B.A., Washington State University; M.A., Roosevelt University; Lecturer of Language and Foreign Studies.
- Heng, Pek-koon** (1990), B.A., M.A., University of Auckland; Ph.D., University of London; Professorial Lecturer of International Service.
- Henoch, Ruth** (1972), A.B., Stanford University; M.A., The American University; Professorial Lecturer of Literature.
- Herman, Arthur** (1990) B.A., University of Minnesota; M.A., Ph.D., The Johns Hopkins University; Professorial Lecturer of History.
- Herman, Mauricio** (1989), B.A., University of Miami; B.S., Universidad de San Marcos; Ph.D., Pontificia Universidad Catolica del Peru; Professorial Lecturer of Economics.
- Herriek, Charles N.** (1986), B.A., Fort Lewis College; M.A., University of Colorado; Ph.D., The American University; Professorial Lecturer of Government and Public Administration.
- Hettige, Hemamala** (1990), B.A., University of Peradeniya; M.A., Ph.D., Boston University; Professorial Lecturer of Economics.
- Heywood, John G.** (1988), B.S., Northern Arizona University; J.D., American University; Lecturer of Law.
- Hill, Sarah** (1990), B.P.H.E., University of Toronto; M.S., The American University; Lecturer of Health and Fitness.
- Hill, William** (1990) B.A., Tulane University; J.D., Duke University; LL.M., Georgetown University; Adjunct Professor of Justice, Law and Society.
- Hiller, Elinor** (1985), A.A., La Salle Extension University; B.A., University of Maryland; M.A., The American University; Lecturer of Literature.
- Hillmer, Douglas** (1990), B.S., University of Missouri; M.S., Freie Universitaet Berlin, M.S., The American University; Lecturer of Computer Science and Information Systems.
- Hines, Sara** (1990), B.A., Connecticut College for Women; M.A., The Catholic University of America; M.Ed., The American University; Lecturer of Education.
- Hoage, Carole** (1990), B.A., University of Pittsburgh; M.A., Ph.D., The American University; Professorial Lecturer of Psychology.
- Hollinger, Daniel** (1990), B.A., University of Maryland; M.Ed., The American University; Ph.D., University of Virginia; Professorial Lecturer of Education.
- Holmes, John** (1991), B.S., Miami University; LL.B., The Catholic University of America; Lecturer of Law.
- Holtz, Margaret** (1991), B.S., George Mason University; M.S., The American University; Lecturer of Communication.
- Hoover, Kimberly** (1991), B.A., Baylor University; J.D., Duke University; Lecturer of Law.
- Horner, Jack** (1979), B.A., Kansas Wesleyan University; Professorial Lecturer of Business Administration.
- Horowitz, Philip M.** (1988), Upsala College; J.D., Georgetown University; Lecturer of Law.
- Hostetler, Zona** (1991), A.B., The College of William and Mary; J.D., Harvard University; Professorial Lecturer of Law.
- Houston, Joseph** (1985), B.S., University of Maryland; M.B.A., The American University; Lecturer of Business Administration.
- Howe, Joseph G.** (1985), B.A., J.D., University of Virginia; M.L.T., Georgetown University; Professorial Lecturer of Law.
- Howell, John** (1990), B.A., M.A., California State University; Ph.D., Columbia University; Professorial Lecturer of Business Management.
- Hoy, Amanda** (1990), A.B., Dartmouth College; M.A., University of North Carolina, Chapel Hill; M.F.A., University of Virginia; Lecturer of Literature.
- Hubard, Margaret C.** (1982), B.A., Vassar College; Professorial Lecturer of Health and Fitness.
- Hulme, James H.** (1989), B.A., Middlebury College; J.D., The American University Law School; Lecturer of Law.
- Hungerford, Thomas** (1991), B.S., Hillsdale College; M.S., M.P.P., Ph.D., The University of Michigan; Professorial Lecturer of Economics.
- Hunt, John** (1991), B.S., Tulane University; M.S., Georgetown University; Ph.D., University of Chicago; Adjunct Professor of Chemistry.
- Hurme, Sally Balch** (1982), B.A., Tulane University; J.D., The American University; Adjunct Professor of Law.
- Hwang, John D.** (1983), B.S., University of California; M.A., Ph.D., Oregon State University; Professorial Lecturer of Computer Science and Information Systems.
- Hyatt, David** (1991), B.S., Old Dominion University; M.A., University of Minnesota; Professorial Lecturer of Communication.
- Igershelt, Roy H.** (1988), B.S., University of Pittsburgh; M.S., The American University; M.B.A., Syracuse University; Adjunct Professor of Computer Science and Information Systems.
- Irving, Thomas L.** (1988), B.A., University of Utah; J.D., Duke University; Lecturer of Law.

- Ismail, Shaik L.** (1975), B.A., Beloit College; M.P.A., The American University; Adjunct Professor of Government and Public Administration.
- Israeli, Alina** (1990), B.A., Leningrad State University; M.Phil., Yale University; Lecturer of Language and Foreign Studies.
- Issacs, Miriam** (1991), B.A., Brooklyn College; M.A., Ph.D., Cornell University; Professorial Lecturer of Jewish Studies.
- Jackson, Morris** (1990), B.Ed., M.Ed., University of Hartford; Ed.D., The George Washington University; Professorial Lecturer of Education.
- Jacques, Edward C.** (1985), B.S., M.S., Ph.D., Washington University; Lecturer of Computer Science and Information Systems.
- Jaffee, Nell** (1991), B.A., Clark University; J.D., University of Connecticut; LL.M., The George Washington University; Adjunct Professor of Law.
- Jalali-Shirazi, Behzad** (1988), B.A., M.A., The American University; Lecturer of Mathematics and Statistics.
- Jassal, Smita** (1991), B.A., M.A., M.Phil, Ph.D., Delhi University; Professorial Lecturer of Anthropology.
- Jeffries, Francis M.** (1988), B.A., The American University; M.L.S., Georgetown University; M.A., The Catholic University of America; Practitioner-in-Residence of International Service.
- Jenkins, James P.** (1990), M.S., North Carolina State University; Ph.D., The Catholic University of America; Adjunct Professor of Computer Science.
- Jiang, Xizhang** (1986), B.A., Shanghai University; M.A., The American University; Lecturer of Language and Foreign Studies.
- John, Bruce** (1991), B.A., Point Loma College; B.F.A., Art Center College of Design; B.A., M.A., Illinois Institute of Technology; Professorial Lecturer of Art.
- Johnson, Claire** (1989), B.S., Boston University; M.S., Howard University; Professorial Lecturer of Communication.
- Johnson, Julius** (1991), B.S., San Diego State University; M.B.A., The George Washington University; Lecturer of Public Affairs.
- Johnson, Lucy** (1987), B.A., The Catholic University of America; Lecturer of Art.
- Johnson, Todd** (1990), B.A., University of Wisconsin; M.A., Ph.D., University of Hawaii; Professorial Lecturer of Economics.
- Johnston, Steven** (1990), A.B., University of South California; M.A., The Johns Hopkins University; Lecturer of Government.
- Jones, Elizabeth** (1988), B.A., M.A., The American University; Lecturer of Sociology.
- Jones, Nolan E.** (1989), B.A., Texas Southern University; M.A., Ph.D., Washington University; Adjunct Professor of Government.
- Jordan, Shannon** (1991), B.A., The College of William and Mary; M.A., Ph.D., University of Georgia; Lecturer of Public Affairs.
- Joyce, Philip** (1991), B.A., Thiel College; M.P.A., The Pennsylvania State University; Ph.D., Syracuse University; Adjunct Professor of Public Administration.
- Joyner, Nancy** (1990), B.A., Southeastern Louisiana University; M.A., Ph.D., Florida State University; Professorial Lecturer of International Service.
- Juan-Ramon, V. Hugo** (1990), B.A., University of Tucuman; M.A., Argentine Center for Macroeconomic Studies; M.A., Ph.D., University of Chicago; Professorial Lecturer of Economics.
- Juenas, Joan** (1990), B.M., DePauw University, M.A., The American University; Lecturer of Performing Arts.
- Juszkiewicz, Jolanta** (1987), B.A., University of Illinois; M.A., Ph.D., Northwestern University; Adjunct Professor of Justice, Law and Society.
- Kahn, Abdul** (1991), B.A., Loyola College; M.A., University of Madras; M.A., University of New York; Ph.D., New School of Social Research; Adjunct Professor of Economics.
- Kahn, Benjamin M.** (1980), A.B., Harvard College; M.H.L., D.H.L., Jewish Theological Seminary; L.H.D., Alfred University; Director and Adjunct Professor of Jewish Studies Program.
- Kalentyrsky, Edward** (1987), M.A., Kharkov State Institute of Culture; M.M., Bowling Green State University; Lecturer of Language and Foreign Studies.
- Kaplan, David** (1990), B.S., City College of New York; Lecturer of Mathematics and Statistics.
- Kaplan, Wendi** (1986), B.A., Maharishi International University; Professorial Lecturer of Health and Fitness.
- Karchmer, Clifford L.** (1988), A.B., Princeton University; M.A., University of Wisconsin; M.P.A., Harvard University; Adjunct Professor of Justice, Law, and Society.
- Kardaras, Basil** (1983), B.A., Northern Illinois University; M.A., Wayne State University; Ph.D., The American University; Professorial Lecturer of Sociology.
- Karl, John** (1986), B.A., M.A., Ph.D., University of Toronto; J.D., The American University; Professorial Lecturer of Law.
- Katzenelson, Susan** (1990), B.A., The University of Tel Aviv; M.A., A.B.D., University of Pennsylvania; Professorial Lecturer of Justice, Law and Society.
- Kaufmann, Adrienne** (1991), B.S., Mundelein College; M.A., Antioch University; Lecturer of International Service.
- Kavanaugh, John V.** (1990), B.A., St. Peter's College; M.S.S.W., Fordham University; Ph.D., New York University; J.D., The American University; Adjunct Professor of Justice, Law, and Society.
- Kavanaugh, Martha** (1991), B.A., M.A., Trinity College; J.D., The American University; Lecturer of Law.
- Kazhdan, Rima A.** (1980), Diploma, University of Moscow; Lecturer of Language and Foreign Studies.
- Keagle, James** (1991), B.S., U.S. Air Force Academy; M.A., University of Pittsburgh; M.A., Ph.D., Princeton University; Professorial Lecturer of International Service.
- Keefe, Joan** (1974), B.A., Smith College; M.A., Georgetown University; M.A., University of Massachusetts; Lecturer of Language and Foreign Studies.
- Keene, Wallace** (1983), B.A., Florida State University; M.B.A., The American University; Lecturer of Computer Science and Information Systems.
- Keohoe, Rose** (1991), B.A., University of Michigan; Lecturer of Health Fitness.
- Kelly, Robert** (1987), B.S., Princeton University; J.D., Miami University School of Law; Professorial Lecturer of Law.
- Kemmerer, Craig L.** (1988), B.A., Pennsylvania State University; J.D., University of Illinois College of Law; Lecturer of Law.
- Kendall, Anne** (1991), B.A., Sarah Lawrence College; M.A., Wesleyan University; M.A., Ph.D., University of Maryland; Professorial Lecturer of Psychology.
- Kendig, William** (1991), B.S., Elizabethtown College; M.B.A., Ph.D., The American University; Adjunct Professor of Business Administration.
- Kerner, Francine J.** (1990), B.A., Queens College; J.D., New York University; Professorial Lecturer of Justice, Law, and Society.
- Ketcham, Lew** (1990), B.A., University of Kansas; M.A., The American University; Professorial Lecturer of Communication.
- Ketcham, Orman, The Honorable** (1982), B.A., Princeton University; LL.B., J.D., Yale University; Adjunct Professor of Law.
- Khalili, Oscar** (1990), M.S., Georgia State University; Lecturer of Mathematics and Statistics.
- Khoshevisan, Shariar** (1983), B.S., M.S., The American University; Lecturer of Computer Science and Information Systems.
- Kidd, Milton** (1972), B.A., The American University; Professorial Lecturer of Performing Arts.

- Kimble, Bruce A.** (1989), B.A., M.A., University of Virginia; J.D., The College of William and Mary; Professorial Lecturer of Justice, Law and Society.
- Kirchner, Robert** (1977), B.A., University of South Florida; M.A., Ph.D., The American University; Adjunct Professor of International Service.
- Kirrane, Peter** (1986), B.S., University of Maryland; M.S.T.M., The American University; Lecturer in Computer Science and Information Systems.
- Kirtley, Jane E.** (1988), B.S., M.S., Northwestern University; J.D., Vanderbilt University; Adjunct Professor of Communication.
- Kivrak, Osman** (1987), M.M., D.M.A., The Catholic University of America; Professorial Lecturer of Performing Arts.
- Klein, Gilbert, Jr.** (1991), B.A., Rollins College; M.A., The American University; Professorial Lecturer of Government.
- Knutson, Martha A.** (1990), B.A., University of Houston; J.D., American University; Adjunct Professor of Law.
- Kohout, Heather** (1987), B.A., Williams College; M.A., University of Texas; Lecturer of Literature.
- Kolasky, William J.** (1988), B.A., Dartmouth College; J.D., Harvard University; Lecturer of Law.
- Kondelis, Euripides** (1990), B.A., The Athens School of Economics and Business Science; M.A., The American University; Lecturer of Mathematics and Statistics.
- Konte, Assane** (1988), Lecturer of Performing Arts.
- Kosloff, Laura** (1991), B.A., Antioch College; M.S., J.D., University of California, Davis; Lecturer of Law.
- Kotz, Bruce M.** (1988), B.A., University of Maryland; M.A., The American University; Lecturer of Government.
- Kovack, Joseph T.** (1987), B.A., The Catholic University of America; M.A., The George Washington University; Lecturer of Literature.
- Kovner, Milton** (1991), B.S., College of the City of New York; M.A., The Johns Hopkins University; Ph.D., Georgetown University; Adjunct Professor of International Service.
- Kranz, Harry** (1975), B.Litt., Rutgers State University; J.D., Ph.D., The American University; Adjunct Professor of Government and Public Administration.
- Krasnow, Iris B.** (1988), B.A., Stanford University; Professorial Lecturer of Communication.
- Kravetz, Beth** (1988), B.A., Florida Atlantic University; J.D., Georgetown University; Lecturer of Justice, Law and Society.
- Kravetz, Katherine** (1990), Professorial Lecturer of Justice, Law and Society.
- Kuney, David R.** (1985), B.A., J.D., University of Virginia; Professorial Lecturer of Law.
- Kurtz, Stephen** (1991), A.B., Princeton University, Ph.D., University of Pennsylvania; Adjunct Professor of History.
- Lane, Larry M.** (1983), A.B., University of California, Riverside; M.A., University of Mexico; Adjunct Professor of Business Administration.
- Landman, Mary H.** (1989), B.A., University of Iowa; M.A., George Mason University; Ph.D., The American University; Professorial Lecturer of Psychology.
- Lanum, Scott** (1990), Lecturer of Health and Fitness.
- LaRoche, George** (1991), B.A., The University of the South; M.P.A., Florida State University; J.D., The American University; Lecturer of Law.
- Lasb, Fred** (1990), B.A., Purdue University; M.A., The American University; Professorial Lecturer of Communication.
- Lasky, Macy** (1990), B.A., Dickinson College; M.Ed., The American University; Lecturer of Education.
- Lattimore, Paula** (1991), B.A., Ph.D., University of North Carolina; Professorial Lecturer of Justice, Law and Society.
- Leach, Stephen E.** (1988), B.A., Yale University; J.D., Stanford University; Professorial Lecturer of Law.
- Lee, Raymond** (1989), B.S., M.Ed., West Virginia Wesleyan College; Lecturer of Mathematics and Statistics.
- Legat, Mimi** (1986), Senior Teaching Certificate, Russian Ballet Society of Great Britain; Professorial Lecturer of Performing Arts.
- Leighton, Paul** (1990), M.A., The American University; Lecturer of Justice, Law and Society.
- Leonard, Jenelle** (1990), B.A., Huston-Tillotson College; M.A., New York University; Professorial Lecturer of Education.
- Lese, William G.** (1989), B.S., California University of Pennsylvania; M.S., Ph.D., University of Delaware; Adjunct Professor of Mathematics and Statistics.
- Lester, Pamela** (1989), B.A., Amherst College; J.D., Fordham University; Lecturer of Law.
- Lester, Urban** (1990), B.A., J.D., The Catholic University of America; Adjunct Professor of Law.
- Levick, Richard** (1990), B.A., University of Maryland; J.D., The American University; M.S., University of Michigan; Professorial Lecturer of Government.
- Lewis, Todd J.** (1986), B.A., The American University; Lecturer of Art.
- Li, Wenpu** (1990), B.S., Beijing Teachers College; M.A., The American University; Lecturer of Mathematics and Statistics.
- Ligier, Slawomir** (1991), B.S., Plymouth State University; Lecturer of Computer Science and Information Systems.
- Lightman, David** (1984), B.A., M.A., University of Maryland; Lecturer of Communication.
- Litt, Robert S.** (1989), A.B., Harvard College; M.A., Yale University; J.D., Yale University; Professorial Lecturer of Law.
- Locke, Vanessa** (1990), B.A., J.D., Howard University; Professorial Lecturer of Literature.
- Loifren, Stephen** (1991), B.A., The University of Vermont; M.A., The American University; Lecturer of History.
- Long, Lyneliyn** (1990), B.A., Williams College; M.A., University of Toronto; Ed.M., Harvard University; Ph.D., Stanford University; Professorial Lecturer of Education.
- Lotwis, Mark** (1989), B.S., Ramapo College; Lecturer of Government.
- Love, Barbara G.** (1990) B.A., M.A., Ph.D., Mississippi State University; Professorial Lecturer of Education.
- Lynch, Cornelia J.** (1984), A.B., The Catholic University of America; M.A., Georgetown University; Ph.D., The American University; Adjunct Professor of Mathematics and Statistics.
- Lynch, Robert** (1990), B.A., University of Massachusetts; Professorial Lecturer of Performing Arts.
- MacDonald, Gall** (1991), B.A., University of Connecticut; Lecturer of Communication.
- MacInlin, Claire** (1990), B.A., Hunter College; M.A., The George Washington University; A.B.D., University of Maryland; Emeriti-In-Residence of Mathematics and Statistics.
- Malekzadeh, Abbas** (1986), A.A., College of Statistics and Informatic, Tehran, Iran; B.A., Tehran University; M.A., College of Cinema and Television, Tehran, Iran; Ph.D., The American University; Lecturer of International Service.
- Marline, Frank** (1990), B.A., Harper College; J.D., New York University; Professorial Lecturer of Justice, Law and Society.
- Marklein, Mary Beth** (1990), B.A., University of Wisconsin; M.A., The American University; Professorial Lecturer of Communication.
- Martin, Frederick T.** (1970), B.A., University of Maryland; M.P.A., The American University; Professorial Lecturer of Mathematics, Statistics, and Computer Science and Information Systems.
- Martin, Joe** (1990), B.A., George Washington University; M.F.A., Ph.D., University of British Columbia; Professorial Lecturer of Performing Arts.
- Martin, Ralph** (1991), B.A., Tulane University; J.D., Washington University; Lecturer of Law.
- Martin-Brown, Joan** (1991), B.A., Allegheny College; Lecturer of Law.
- Marx, Patricia A.** (1989), B.A., M.A., The American University; Ph.D., University of Maryland; Lecturer of Art.

- Masling, Mark** (1991), B.A., University of Colorado; J.D., University of Pennsylvania; Ph.D., Stanford University; Professorial Lecturer of Psychology.
- Masters, Nicholas** (1990), B.A., M.A., Southern Illinois University; Ph.D., University of Wisconsin; Adjunct Professor of Government.
- Mathews, John R.** (1986), B.A., Yale University; M.A., Ph.D., Cornell University; Professorial Lecturer of Literature.
- Mazzoni, Maria** (1989), B.S., M.A., Long Island University; Ed.D., New York University; Professorial Lecturer of Language and Foreign Studies.
- McAuliffe, John F.** (1982), B.A., Montgomery College; J.D., The American University; Adjunct Professor of Law.
- McCabe, Paula** (1988), B.A., Emmanuel College; M.A., Northeastern University; M.A., The American University; Professorial Lecturer of Communication.
- McElroy, Sally C.** (1989), B.A., The George Washington University; M.A., University of Michigan; Lecturer of Literature.
- McGregor, James** (1991), B.A., Northern Illinois University; M.A., Ph.D., The Ohio State University; Adjunct Professor of International Service.
- McHale, Douglas** (1990), A.A., Onslow County Community College; Lecturer of Health and Fitness.
- McKenney, Carolyn** (1988), B.A., University of Michigan; J.D., Wayne State University; Lecturer of Law.
- McKinney, Lucinda** (1989), B.A., Messiah College; Lecturer of Government.
- McKitterick, Katherine** (1990), B.A., Swarthmore College; M.S., The George Washington University; Lecturer of Mathematics and Statistics.
- McMillan, Cameron** (1990), B.F.A., Indiana University; M.F.A., Yale University; Professorial Lecturer of Art.
- McLaughlin, Corinne** (1991), B.A., University of California; Lecturer of Government.
- McLeese, Roy** (1991), B.A., Harvard University; J.D., New York University; Lecturer of Law.
- McShea, Maureen** (1990), B.S., University of Hartford; M.A., The American University; Lecturer of Mathematics and Statistics.
- Meloni, Christine** (1990), B.A., Wells College; M.A., Middlebury Graduate School; M.A., University of Rome; M.A., The American University; Ed.D., The George Washington University; Professorial Lecturer of Language and Foreign Studies.
- Meredith, Pamela L.** (1989), J.D., University of Oslo; L.L.M., McGill University; Lecturer of Law.
- Merjanian, Patricia** (1990), B.A., San Jose University; M.S., San Diego State University; Ph.D., University of California, Irvine; Professorial Lecturer of Psychology.
- Merz, Albert** (1972), B.M., Eastman School of Music; M.M., The Catholic University of America; Professorial Lecturer of Performing Arts.
- Mestre, Eloy R.** (1983), B.S., University of Havana; M.A., Ph.D., New School for Social Research; Adjunct Professor-in-Residence of Business Administration.
- Meyer, Douglas** (1991), B.S., University of Oregon; Ph.D., The American University; Professorial Lecturer of Economics.
- Midkiff, Charles R., Jr.** (1977), B.S., M.S., The George Washington University; Adjunct Professor of Justice, Law and Society.
- Milfeldt, Roberta** (1989), B.A., M.A., Wichita State University; Lecturer of Sociology.
- Miller, Judy M.** (1988), B.A., The Pennsylvania State University; M.A., The American University; Professorial Lecturer of Communication.
- Miller, Leroy L.** (1989), B.A., Washington State University; Ph.D., University of Bonn, Germany; Professorial Lecturer of International Service.
- Miller, Scott** (1990), B.A., Columbia University; B.A., M.A., Jewish Theological Seminary; Lecturer of Jewish Studies.
- Miller, Susan L.** (1987), B.A., The George Washington University; M.A., Ph.D., The Catholic University of America; Professorial Lecturer of Language and Foreign Studies.
- Miller, Terry E.** (1983), B.S., Cornell University; M.A., Columbia University Teachers College; J.D., The American University; Professorial Lecturer of Law.
- Miller, William C.** (1985), B.A., University of Maryland; LL.B., The George Washington University; Professorial Lecturer of Law.
- Misra, Satish C.** (1990), M.S., University of Chicago; Ph.D., Southern Methodist University; Adjunct Professor of Mathematics and Statistics.
- Miwa, Toyoko** (1988), B.A., Aoyama Gakuin University, Japan; M.A., The American University; Lecturer of Language and Foreign Studies.
- Modarres-Hakimi, Hossein** (1988), B.S., M.S., The American University; Lecturer in Computer Science and Information Systems.
- Mokatiri, Saleem** (1990), B.S.C., The Hebrew University of Jerusalem; M.S., The American University; Lecturer of Mathematics and Statistics.
- Mondzac, Stephanie** (1987), B.A., Barnard College; M.A., University of Vermont; Lecturer of Literature.
- Money, William** (1986), B.A., University of Richmond; M.B.A., Indiana University; Ph.D., Northwestern University; Professorial Lecturer of Computer Science and Information Systems.
- Montemezzi, Marco** (1988), B.S., California Institute of Technology; M.A., Ph.D., The American University; Professorial Lecturer of Mathematics and Statistics.
- Moody, Ellen** (1986), B.A., Queens College, City University of New York; Ph.D., The Graduate School, City University of New York; Professorial Lecturer of Literature.
- Mooney, James W.** (1985), B.A., The Catholic University of America; M.A., Rice University; Lecturer of History.
- Moore, John N.** (1983), A.B., Drew University; LL.B., Duke University; LL.M., University of Illinois; Adjunct Professor of Law.
- Morant, Blake D.** (1988), B.A., J.D., University of Virginia; Lecturer of Law.
- Moravsky, Nikita** (1989), Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.
- Morawski, Paul** (1987), B.S., M.S., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Moris, Zailan** (1990), B.A., Universiti Sans Malaysia; M.A., Carleton University; Lecturer of Philosophy and Religion.
- Morris, Richard P.** (1986), B.S., Illinois Institute of Technology; M.S., Texas Technical University; Lecturer of Mathematics and Statistics.
- Morrison, Susan** (1989), B.S., Ball State University; Professorial Lecturer of Communication.
- Mosmann, James E.** (1987), B.S., M.S., Ph.D., University of Michigan; M.S., The Johns Hopkins University; Adjunct Professor of Mathematics and Statistics.
- Mothlon, Patricia D.** (1986), B.A., M.A., University of Caen; Lecturer of Language and Foreign Studies.
- Moyer, Charles D.** (1989), B.A., Gettysburg College; LL.B., University of Michigan Law School; Professorial Lecturer of Law.
- Muhlbaum, Abraham M.** (1988), M.S., Technological University Delft, The Netherlands; Lecturer of Physics.
- Muir, Bonnie** (1987), B.A., M.S., The American University; Lecturer of Computer Science and Information Systems.
- Mulcahy, Robert** (1980), Adjunct Professor of Art.
- Murray, Paul E.** (1990), B.A., St. Bonaventure's University; M.A., Ph.D., The Catholic University of America; Professorial Lecturer of Anthropology.
- Murrell, Kenneth** (1989), B.B.A., Washburn University; M.B.A., The American University; Ph.D., The George

- Washington University; Professorial Lecturer of International Service.
- Myette, Paula** (1990), A.B., M.E.D., Smith College; Ed.M., Ed.D., Columbia University; Professorial Lecturer of Literature.
- Najjar, Mitri** (1990), B.A., J.D., University of Michigan; Lecturer of Law.
- Nash, Daniel** (1991), B.S., State University of New York; M.S., Hofstra University; J.D., University of California; Lecturer of Law.
- Nash, Martine** (1990), B.S., Frostburg University; Lecturer of Health and Fitness.
- Neal, Jack** (1987), B.A., M.A., University of Michigan; Professorial Lecturer of Communication.
- Nelditch, Michael** (1989), B.A., University of Pennsylvania; Ph.D., Cambridge University; Professorial Lecturer of International Service.
- Nettles, Reginald** (1991), B.S., Howard University; M.A., The New School for Social Research; Ph.D., Howard University; Professorial Lecturer of Psychology.
- Netus, Jean-Guillaume** (1990), B.A., Lope de Vega; Ph.D., University of Paris, Sorbonne; Professorial Lecturer of Language and Foreign Studies.
- Ng, Ho Kuen** (1990), B.S., University of Hong Kong; M.A., M.S., Ph.D., University of California, Berkeley; Professorial Lecturer of Math and Statistics.
- Norris, Deborah O.** (1989), B.A., Colorado College; M.A., Ph.D., The American University; Professorial Lecturer of Psychology.
- Norsworthy, Leonid A.** (1988), B.A., M.A., Ph.D., The American University; Professorial Lecturer of Government.
- Novotny, Eric** (1982), B.A., Colorado State University; M.A., Ph.D., Georgetown University; Professorial Lecturer of International Service.
- Oberle, Martha Ann** (1977), A.B., Chestnut Hill College; M.A., State University of New York, New Paltz; Professorial Lecturer of Literature.
- Ocasio, Benjamin P.** (1987), B.A., B.S., John Jay University; M.A., The New School of Social Research; Lecturer of Government and Public Administration.
- Ofutt, William** (1988), B.S.B.A., Georgetown University; J.D., The College of William and Mary; Lecturer of Business Administration.
- Oglesby, Madeline** (1990), B.A., The University of Texas; M.E.D., University of Houston; Ph.D. The University of Texas; Professorial Lecturer of Business Administration.
- Olds, Glenn** (1990), A.B., Willamette University; B.D., Garrett Theological Seminary; M.A., Northwestern University; Ph.D., Yale University; Adjunct Professor of International Service.
- Oleszek, Walter J.** (1975), B.S., State University of New York; M.A., Michigan State University; Ph.D., State University of New York; Scholar-in-Residence, School of Public Affairs.
- Olgyay, Nora** (1990), B.A., Princeton University; M.S., Pratt Institute; Professorial Lecturer of Art.
- Ollivier, Louis** (1991), B.A., St. Mary's College; M.A., Middlebury College; Ph.D., University of New Mexico; Professorial Lecturer of Language and Foreign Studies.
- O'Malley, Robert E.** (1990), A.B., University of Notre Dame; J.D., Northwestern University; Adjunct Professor of Law.
- Ortins, J. Bradley** (1990), B.A., University of Massachusetts; M.S., Northeastern University; J.D., The Catholic University of America; Lecturer of Law.
- Oslund, Robert J.** (1990), B.S., University of Wyoming; M.A., Ph.D., The American University; Professorial Lecturer of International Service.
- Osterman, R. Dennis** (1988), B.S., Grove City College; M.S., J.D., The American University; Adjunct Professor of Law.
- O'Sullivan, William** (1990), B.A., Haverford College; M.F.A., The American University; Lecturer of Literature.
- Otani, Midori** (1990), B.S., Kyoto University; M.A., University of Minnesota; Lecturer of Language and Foreign Studies.
- O'Toole, John** (1989), B.S., Springfield College; Lecturer of Health and Fitness.
- Owen, Lisa** (1990), B.A., Arizona State University; M.A., The American University; Lecturer of Language and Foreign Studies.
- Owens, James** (1961), B.A., M.A., Loyola University; Ph.D., Georgetown University; Emeriti-in-Residence, Business Administration.
- Padilla, David** (1988), A.B., J.D., University of Detroit; Lecturer of Law.
- Palenaki, Ronald** (1990), B.A., St. Vincent College; J.D., The Catholic University of America; Professorial Lecturer of Law.
- Pankratz, David** (1988), B.A., University of Toledo; M.A., University of Illinois; Professorial Lecturer of Performing Arts.
- Patry, William** (1991), Professorial Lecturer of Law.
- Patey, Samuel M.** (1990), B.S., Saint Vincent College; M.S.T.M., The American University; Lecturer of Computer Science.
- Patterson, Eliza** (1991), B.A., University of Michigan; J.D., Harvard University; Lecturer of Law.
- Patterson, Patricia** (1990), B.A., LeMoyne College; M.P.A., The American University; Lecturer of Government.
- Pauley, Caren Altechek** (1985), B.A., William Smith College; M.A., Harvard University; Ph.D., City University of New York; Professorial Lecturer of Language and Foreign Studies.
- Pearson, K. Randall** (1988), B.S., J.D., Brigham Young University; Professorial Lecturer of Justice, Law and Society.
- Peck, Joel** (1991), Lecturer of Communication.
- Peck, Robert** (1991), B.A., The George Washington University; J.D., Cleveland State University; LL.M., Yale University; Lecturer of Law.
- Pedowitz, Lenard** (1991), B.S., University of Maryland; Lecturer of Computer Science and Information Systems.
- Perdue, Charles** (1988), B.A., The College of William and Mary; M.A., George Mason University; Ph.D., University of Virginia; Adjunct Professor of Business Administration.
- Perkins, Charles** (1990), B.S., U.S. Naval Academy; M.B.A., University of California, Berkeley; Ph.D., The George Washington University; Professorial Lecturer of Public Administration.
- Persil, Herbert G.** (1987), B.S., Loyola University; M.A., Ph.D., University of Chicago; Professorial Lecturer of Government and Public Administration.
- Pierce, Steven** (1990), B.A., M.P.A., University of Utah; Ph.D., The American University; Lecturer of International Service.
- Pilzer, Arthur** (1986), B.A., Queens College; M.B.A., The American University; Professorial Lecturer of Business Administration.
- Pinder, Joseph** (1990), B.S., Boston University; Lecturer of Communication.
- Pock, Maximilian A.** (1973), J.D., University of Iowa; S.J.D., University of Michigan; Adjunct Professor of Law.
- Poole, Jillian** (1977), A.B., The George Washington University; Adjunct Professor of Performing Arts.
- Portelli, Christopher** (1991) B.A., Depauw University; J.D., New York Law School; Lecturer of Justice, Law and Society.
- Porter, James** (1991), B.A., Augustana College; Lecturer of Language and Foreign Studies.
- Powers, Hope R.** (1983), B.A., University of Pittsburgh; M.B.A., Temple University; Lecturer of Health and Fitness.
- Pranger, Robert J.** (1991), B.A., M.A., Ph.D., University of California, Berkeley; Adjunct Professor of International Service.
- Press, Rebecca** (1986), A.B., Columbia University; M.A., New York University; Lecturer of Language and Foreign Studies.
- Primack, Theodor** (1990), B.A., Bard College; M.A., New York University; Ph.D., Columbia University; Professorial Lecturer of Philosophy and Religion.
- Proctor, Sondra G.** (1986), B.A., M.Ed., The American University; Conductor-in-Residence, Performing Arts.

- ProI, Jose** (1987), Bachelor in Letters, Instituto Lasalle; Doctor in Social Sciences, University of Havana; M.Ed., The Johns Hopkins University; Professorial Lecturer of Language and Foreign Studies.
- Pryde, Joan** (1990), B.A., College of Mt. St. Vincent; M.A., The American University; Lecturer of Communication.
- Purtz, Patricia** (1990), B.A., University of Hartford; J.D., Antioch School of Law; Professorial Lecturer of Justice and Law.
- Putman, Eileen** (1990), B.A., Vanderbilt University; Lecturer of Communication.
- Qaim-maqami, Linda Willis** (1988), B.A., University of Kentucky; M.A., Ph.D., Texas A&M University; Professorial Lecturer of History.
- Rabinowitz, Randy** (1989), B.A., The Johns Hopkins University; J.D., LL.M., Georgetown University; Lecturer of Law.
- Raiszadeh, Brigitte G.** (1989), Diploma, Paedagogische Hochschule (Pedagogic University), West Germany; Lecturer of Language and Foreign Studies.
- Raker, Irma S., The Honorable** (1982), B.A., Syracuse University; J.D., The American University; Adjunct Professor of Law.
- Ranadive, Gall** (1988), M.A., Antioch University; M.F.A., The American University; Lecturer of Literature.
- Raneese, Thomas J** (1990), B.A., M.A., The American University; Lecturer of Art.
- Rao, Jarugula S.** (1990), B.A., Hindu College; M.A., Allahabad University; B.ED., Andhra Christian College; M.ED., Government Training College; Ed.S., Ph.D., University of Nebraska; Professorial Lecturer of Business Administration.
- Rapach, David** (1990), Lecturer of Economics
- Ratiner, Leigh** (1989), B.A., Grinnell College; L.L.B., University of Pennsylvania; LL.M., Southern Methodist University; Professorial Lecturer of Law.
- Redding, Earl** (1991), B.A., Guilford College; M.A., Ph.D., University of Miami; Professorial Lecturer of Philosophy and Religion.
- Reed, John** (1991), B.A., University of San Francisco; Adjunct Professor of Communication.
- Reed, Rosemary** (1988), B.A., M.A., Wichita State University; Professorial Lecturer of Communication.
- Reeves, Donald** (1991), B.S., M.A., Cornell University; J.D., George Washington University; Professorial Lecturer of Literature.
- Reeves, Justis Y.** (1988), B.A., American Baptist College; M.Div., Wesley Theological Seminary; Lecturer of American Studies.
- Reichman, Rick** (1989), B.A., Georgia State University; M.F.A., University of Southern California; Professorial Lecturer of Communication.
- Reld, Inez S.** (1989), B.A., Tufts University; J.D., Yale University; M.A., University of California at Los Angeles; Ph.D., Columbia University; Constitutional Scholar-in- Residence, Government.
- Relman, John P.** (1988), A.B., Harvard College; J.D., University of Michigan; Lecturer of Law.
- Repetto, Robert** (1991), B.A., Harvard University; M.Sc., London School of Economics; Ph.D., Harvard University; Adjunct Professor of International Service.
- Retzlaff, Kay Lynn** (1988), B.A., M.A., University of Nebraska; Lecturer of Literature.
- Ricci, Frederick** (1990), B.S., Bryant College; M.B.A., M.Ed., Boston University; Professorial Lecturer of Management.
- Richter, Rose E.** (1980), Bachelor's Diploma, School of Foreign Languages in Munich; M.A., The American University; Lecturer of Language and Foreign Studies.
- Ridder, Stephanie** (1991), B.A., Harvard University; J.D., University of Virginia; Adjunct Professor of Law.
- Rioch, Margaret** (1989), B.A., Wellesley College; M.A., Washington University; Ph.D., Bryn Mawr College; Emeriti-In-Residence, Psychology.
- Riordan, Barrett** (1991), B.M.E., Rensselaer Polytechnic Institute; M.B.A., Wharton Graduate School; Professorial Lecturer of Business Administration.
- Ristau, Bruno** (1984), B.B.A., Cleveland College; J.D., Western Reserve University; LL.M., Georgetown University; Adjunct Professor of Law.
- Rizzi, Antonette** (1985), B.A., The American University; Lecturer of Mathematics and Statistics.
- Roady, Stephen** (1978), A.B., Davidson College; J.D., Duke University; Adjunct Professor of Law.
- Robbins, Esther** (1975), B.A., The Jewish Theological Seminary of America; M.A., Baltimore Hebrew University; Lecturer of Language and Foreign Studies.
- Roberts, James K.** (1987), Lecturer of Health and Fitness.
- Roberts-Burke, Bonnie** (1990), B.S., University of Maryland; M.S., University of Virginia; Lecturer of Literature.
- Robertson, Jeanette** (1990), B.S., Florida Southern College; M.S., Florida State University; Lecturer of Mathematics and Statistics.
- Robinson, Maria** (1991), A.B., Dartmouth College; M.S., The American University; Lecturer of Justice, Law and Society.
- Rock, Michael** (1987), B.S., Duquesne University; M.A., Ph.D., University of Pittsburgh; Adjunct Professor of International Service.
- Rocque, Emily Adams** (1983), B.S., Georgetown University; M.A., Columbia University; Lecturer of Literature.
- Romualdez, Antonio** (1988), B.A., Ateneo de Manila University; M.A., Marquette University; M.B.A., The George Washington University; Ph.D., University of Toronto; Professorial Lecturer of Business Administration.
- Rooney, Joseph** (1987), B.A., University of Pittsburgh; M.B.A., Syracuse University; Adjunct Professor of Computer Science and Information Systems.
- Rosenblatt, Alan Jay** (1989), B.A., Tufts University; M.A., Boston College; Lecturer of Government.
- Ross, Phillip** (1990), B.S., M.S., Ph.D., University of Maryland; Adjunct Professor of Mathematics and Statistics.
- Rost, Ronald F.** (1984), Ph.D., Northwestern University; M.B.A., Indiana University; Professorial Lecturer of Economics.
- Roth, J. Alan** (1989), B.A., The American University; J.D., New York University; Professorial Lecturer of Government.
- Rothman, Juliet** (1991), B.A., Tufts University; M.S.W., Hunter College; M.A., St. John's College; Ph.D., The American University; Professorial Lecturer of Philosophy.
- Roughton, Richard Allen** (1988), B.A., Westminster College; M.A., Ph.D., University of Maryland; Professorial Lecturer of History.
- Rubin, Seymour** (1988), B.A., University of Michigan; LL.B., LL.M., Harvard University; Emeriti-In-Residence, Law.
- Rubloff, Laura** (1979), B.S., Northwestern University; M.S., University of Michigan; Professorial Lecturer of Education.
- Rudy, Sharon M.A., M.Ed., Ed.S., University of Florida; Ph.D., University of Maryland; Lecturer of Education.**
- Rundquist, Paul** (1980), B.A., Loyola University; M.A., University of Chicago; Adjunct Professor of Government and Public Administration.
- Russell, Diane** (1984), B.A., State University of New York, Brockport; Lecturer of Language and Foreign Studies.
- Russell-Pineda, H. Diane** (1986), A.B., Vassar College; Ph.D., Johns Hopkins University; Adjunct Professor of Art.
- Ryan, Olga Sharouplch** (1988), B.A., M.A., State University of New York; Lecturer of Language and Foreign Studies.
- Ryan, William** (1990), B.A., Boston University; M.A., J.D., The American University; Lecturer of Law.
- Saini, Uma** (1975), B.A., Delhi University; M.A., Indraprastha College; Lecturer of Language and Foreign Studies.

- Salazar, Oscar** (1990), B.A., Columbia Union College; M.A., The George Washington University; Emeriti-In-Residence, Language and Foreign Studies.
- Sanders, Calvin** (1984), B.A., Cornell University; J.D., The American University; Adjunct Professor of Law.
- Sandstrom, Boden C.** (1990), B.S., St. Lawrence University; A.M.L.S., University of Michigan; M.S., The American University; Lecturer of Physics.
- Sandstrom, Karl J.** (1990), B.A., University of Washington; J.D., LL.M., The George Washington University; Professorial Lecturer of Government.
- Saunders, Richard** (1989), B.A., Providence College; Cornell University; Ph.D., The Catholic University of America; Professorial Lecturer of Language and Foreign Studies.
- Schaler, Jeffrey** (1990), B.A., Antioch College; Professorial Lecturer of Justice, Law and Society.
- Schiffman, Howard** (1987), B.A., Colgate University; J.D., Fordham University; Lecturer of Law.
- Schilling, Henry** (1988), A.B., Harvard College; M.P.A., Princeton University; J.D., Rutgers Law School; Professorial Lecturer of Government.
- Schlesinger, Ann Rhea** (1988), B.A., University of Virginia; M.F.A., The American University; Lecturer of Art.
- Schlesinger, Steven** (1990), B.A., Cornell University; M.A., Ph.D., Claremont Graduate School; Adjunct Professor of Government.
- Schulkin, Jay** (1991), B.A., State University of New York; M.A., Ph.D., University of Pennsylvania; Scholar-In-Residence, Psychology.
- Schultz, Corrine** (1989), B.A., State University of New York, Buffalo; J.D., Georgetown University Law Center; Lecturer of Justice, Law and Society.
- Schweltzer, Harvey** (1991), B.A., San Francisco State University; J.D., University of California, Los Angeles; Professorial Lecturer of Law.
- Schwinger, David** (1985), B.S., University of Pennsylvania; J.D., The George Washington University; Professorial Lecturer of Law.
- Seroggins, Sterling** (1988), B.M., Colorado State University; M.S., University of Colorado; M.A., The American University; Lecturer of Performing Arts.
- Souka, Robert** (1991), B.A., The American University; Ph.D., Southern Methodist University; Professorial Lecturer of Religion.
- Selden, Ramsay W.** (1983), A.B., Duke University; M.A., Ph.D., University of Virginia; Methodologist-in-Residence, Education.
- Severt, John** (1989), B.A., Kent State University; J.D., Georgetown University; Professorial Lecturer of Law.
- Shapiro, Jonathan** (1985), B.A., Northwestern University; J.D., The American University; Professorial Lecturer of Law.
- Shapiro, Robert A.** (1977), B.A., The American University; J.D., Northwestern University; Adjunct Professor of Justice, Law and Society.
- Shaposhnikova, Helena** (1990), M.A., Moscow State Pedagogical Institute; Lecturer of Language and Foreign Studies.
- Sharoupich, Olga** (1988), B.A., M.A., State University of New York at Albany; Lecturer of Language and Foreign Studies.
- Sharp, Daniel** (1989), M.A., Ph.D., Clemson University; Professorial Lecturer of Computer Science.
- Shayne, Vivian** (1991), B.A., Adelphi University; M.A., Ph.D., The New School for Research; Professorial Lecturer of Sociology.
- Shearer, Charles** (1991), A.S., Kokomo Junior College; B.A., J.D., Indiana University; Professorial Lecturer of Business Administration.
- Sherman, Arnold** (1990), A.A., Coddard College; B.A., M.A., New York University; Ph.D., State University of New York; Professorial Lecturer of Sociology.
- Shevchenko, Arkady N.** (1989), B.A., Ph.D., Moscow State Institute of International Relations; Adjunct Professor of International Service.
- Shore, Milton** (1978), A.B., Harvard College; M.A., Ph.D., Boston University; Clinical Psychologist-in-Residence, Psychology.
- Shoaky, John** (1987), B.A., Colorado College; M.A., M.A., University of Wyoming; Lecturer of Philosophy and Religion.
- Stegel, Michael Eric** (1978), B.A., The American University; M.A., Ph.D., Tufts University; Professorial Lecturer of Government.
- Slmkowitz, Loren M.** (1972), B.A., M.A., The American University; Professorial Lecturer of Business Administration.
- Simon, Nancy** (1991), B.S., M.S., Ph.D., The American University; Professorial Lecturer of Chemistry.
- Simpson, Christopher** (1991), M.A., University of Maryland; Professorial Lecturer of Communication.
- Smith, Brian A.** (1989), B.S., The Ohio State University; Lecturer of Physics.
- Smith, Charles** (1991), B.A., Dillard University; M.S., San Jose University; Adjunct Professor of Computer Science and Information Systems.
- Smith, Marie-France** (1990), M.A., University of Lille; Lecturer of Language and Foreign Studies.
- Smith, Sellers** (1990), B.S., M.B.A., Rensselaer Polytechnic Institute; Lecturer of Computer Science and Information Systems.
- Smurthwaite, Scott** (1991), B.A., California State University; Lecturer of Psychology.
- Snow, Nancy** (1990), B.A., Clemson University; Ph.D., The American University; Lecturer of International Service.
- Soma, Linda Coleman** (1991), B.A., The American University; M.A., University of Maryland; Professorial Lecturer of Performing Arts.
- Spann, Melvin** (1989), B.S., Howard University; M.S., Ph.D., The American University; Adjunct Professor of Chemistry.
- Speights, Grace E.** (1988), B.A., University of Pennsylvania; J.D., The George Washington University; Lecturer of Law.
- Spence-Gale, Kieann** (1991), M.B.A., The American University; Lecturer of Business Administration.
- Speranza, Anthony** (1990), B.A., The College of the Holy Cross; M.A., Brown University; Ph.D., New York University; Lecturer of Performing Arts.
- Spiegel, John** (1991), B.A., Stanford University; J.D., Yale University; Professorial Lecturer of Law.
- Spinelli, Lawrence** (1987), B.A., Drew University; M.A., Georgetown University; M.A., Ph.D., New York University; Professorial Lecturer of Government and Public Administration.
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- Stauffer, Lisa** (1990), B.S., Virginia Polytechnic Institute and State University; M.A., Idaho State University; Lecturer of Literature.
- Stefen, Marc Allen** (1986), B.A., J.D., The American University; Professorial Lecturer of Law.
- Stein, Norman H.** (1989), B.S., Brooklyn College of the City University of New York; J.D., The American University; Professorial Lecturer of Law.
- Stein, Paul T.** (1979), B.A., University of Maryland; J.D., The American University; Adjunct Professor of Law.
- Stern, Daniel** (1990), B.A., University of Baltimore; M.A., University of Richmond; Ph.D., University of Montana; Adjunct Professor of Justice, Law and Society.
- Stevenson, Gall** (1990), B.A., Middlebury College; M.A., University of Oslo; Ph.D., The American University; Professorial Lecturer of International Service.
- Stevenson, Maura O.** (1987), B.S., Ithaca College; M.S., University of Wisconsin; Ph.D., The American University; Professorial Lecturer of Health and Fitness.

- Stine, Deborah** (1991), B.S., University of California; M.B.A., Corpus Christi State University; Lecturer of Government.
- Stokes, Robert** (1990), A.B., University of North Carolina-Chapel Hill; Professorial Lecturer of Communication.
- Sullivan, John** (1980), B.S., U.S. Naval Academy; M.S., Naval Postgraduate School; Professorial Lecturer of Mathematics and Statistics.
- Sullivan, Kevin** (1990), B.S.F.S., Georgetown University; Professorial Lecturer of Communication.
- Suneja, Kathleen** (1990), B.A., University of Delhi; M.A., M.Phil., Jawaharlal Nehru University; M.A., The American University; Lecturer of International Service.
- Surface, Thomas** (1991), B.A., Loyola College; M.S., The American University; Lecturer of Communication.
- Susko, Carol Lynne** (1989), B.S., George Mason University; J.D., Columbus School of Law, The Catholic University of America; C.P.A.; Lecturer of Business Administration.
- Sutton, Dianne** (1990), B.A., Harris-Stowe State College; M.A., Washington University; Professorial Lecturer of Communication.
- Szu, Harold** (1990), B.S., Taiwan C.K. National University; M.S., University of Detroit; Ph.D., Rockefeller University; Adjunct Professor of Computer Science.
- Tamagna, Jane** (1990), B.A., University of Maryland; Adjunct Professor of Government and Public Administration.
- Tanaka, Karen** (1990), B.F.A., San Francisco Art Institute; B.A., M.A., University of California, Berkeley; Professorial Lecturer of Communication.
- Tarpey, John** (1990), B.A., The University of Virginia; Professorial Lecturer of Communication.
- Tatel, Edith** (1983), B.A., University of Michigan; M.A., Northwestern University; Lecturer of Education.
- Taube, Herman** (1990), M.A., The American University; Lecturer of Jewish Studies.
- Teleh, Laura** (1989), B.A., Colgate University; M.A., The American University; Lecturer of Literature.
- Tellis, Karen** (1991), B.A., Case Western Reserve University; M.A., Brown University; J.D., The George Washington University; Professorial Lecturer of Justice Law and Society.
- Thibideau, Conchetta** (1987), M.S., Georgetown University; Ph.D., University of Rome; Professorial Lecturer of Language and Foreign Studies.
- Thomas, Rosita Maria** (1987), A.B., Duke University; M.A., M.Phil., Ph.D., Yale University; Professorial Lecturer of Government.
- Thompson, Richard** (1991), B.S., University of Chicago; Ph.D., University of Maryland; Adjunct Professor of Chemistry.
- Tibbetts, Carl A.** (1989), B.A., Northwestern University; J.D., University of Pennsylvania; Professorial Lecturer of Government.
- Timmeny, Wallace L.** (1988), B.B.A. Fairfield University; LL.B., New York University; Adjunct Professor of Law.
- Tocci, Vincent** (1990), B.S., B.S., M.S., Duquesne University; Ph.D., University of Arizona; Adjunct Professor of Communication.
- Toftoy, Charles N.** (1987), B.S., U.S.M.A., West Point; M.B.A., Tulane University; D.B.A., Nova University; Professorial Lecturer of Business Administration.
- Toggas, Thomas** (1989), B.S., Lehigh University; Lecturer of Health and Fitness.
- Toole, John J.** (1989), B.S., Springfield College; Lecturer of Health and Fitness.
- Toppins, Paul** (1989), B.A., J.D., University of Alabama; LL.M., Columbia University; Professorial Lecturer of Communication.
- Tosti, Mark** (1986), B.A., Princeton University; M.A., Columbia College; J.D., The American University; Professorial Lecturer of Law.
- Tourish, Thomas J.** (1989), B.A., Villanova College; J.D., Georgetown University; Lecturer of Law.
- Tracy, Laura** (1990), B.A., Queens College; M.A., Georgetown; Ph.D., The American University; Professorial Lecturer of Literature.
- Trexler, Mark** (1991), B.A., Antioch College; M.P.P., Ph.D., University of California, Berkeley; Lecturer of Law.
- Tunik-Rosenlansky, Galina** (1989), B.S., M.A., Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.
- Turner, Aris** (1987), A.A., Endicott College; B.S., M.F.A.; The American University; Lecturer of Art.
- Twombly, Charlotte, H.** (1988), B.A., Western Maryland College; M.A., Ph.D., The American University; Professorial Lecturer of Sociology.
- Ukata, Patrick** (1990), B.A., M.A., Roosevelt University; Lecturer of International Service.
- Umapathy, Srinivasan** (1990), B.S., Indian Institute of Technology; M.B.A., Indian Institute of Management; Ph.D., Harvard University; Adjunct Professor of Law.
- Valdez, Marlana** (1990), B.S., J.D., University of Texas; Adjunct Professor of Law.
- Vallanatos, Evan** (1991), B.A., M.A., University of Illinois; Ph.D., University of Wisconsin; Professorial Lecturer of Sociology.
- Varkiani, Ali E.** (1984), B.S., Ferdowsi University, Iran; M.S., The American University; Lecturer of Computer Science and Information Systems.
- Velazquez-Lara, Socorro** (1990), B.A., The Interamerican University of Puerto Rico; M.A., University of New Mexico; Lecturer of Language and Foreign Studies.
- Vliehe, Karl William** (1972), B.A., M.A., The American University; J.D., LL.M. (M.L.T.), Georgetown University; Adjunct Professor of Business Administration.
- Vrbsky, Rudolph** (1988), B.A., Northwestern University; Professorial Lecturer of Performing Arts.
- Vrenios, Anastasios** (1974), B.M., University of the Pacific; M.M., Indiana University; Professorial Lecturer of Performing Arts.
- Wagner, John** (1980), B.A., B.S., The American University; Lecturer of Mathematics and Statistics.
- Walwik, Joseph** (1990), B.A., Slippery Rock University; M.A., The American University; Lecturer of History.
- Wallako, Vincent** (1991), B.S. Syracuse University; Lecturer of Physics.
- Waldman, Mark S.** (1982), B.A., M.A., Ph.D., University of Florida; Professorial Lecturer of Business Administration.
- Ward, Maurice** (1990), B.A., University of Maryland; M.S., Coppin College; M.P.A., The George Washington University; Professorial Lecturer of Justice, Law and Society.
- Warren, John** (1991), B.S., University of London; M.S., Ph.D., North Carolina State University; Professorial Lecturer of Statistics.
- Watkins, Bridgen** (1985), B.A., The Citadel; M.S., The American University; Professorial Lecturer of Justice, Law and Society.
- Way, Alfonso G.** (1980), B.A., The American University; Professorial Lecturer of Communication.
- Weerasinghe, Jagath** (1990), B.A., Institute of Aesthetic Studies; M.F.A., The American University; Lecturer of Art.
- Weeks, Margaret** (1991), B.A., Mt. Holyoke College; J.D., Boston University; Professorial Lecturer of Justice, Law and Society.
- Weiss, Madeline R.** (1976), B.A., Queens College; M.S., Ph.D., The American University; Adjunct Professor of Computer Science and Information Systems.
- Westin, Martha** (1988), B.A., M.A., University of Michigan; Lecturer of Performing Arts.
- White, Raymond** (1988), B.A., Syracuse University; Professorial Lecturer of Communication.
- Whitels-Helm, Mark W.** (1988), B.A., Stockton State College; M.A., Drew University; Lecturer of Literature.

Williams, Harumi (1986), B.A., Aoyama Gakuin University; M.S., Georgetown University; Lecturer of Language and Foreign Studies.

Williamson, Rodney Gordon (1988), B.A., University of Portland; M.S., Portland State University; Lecturer of Psychology.

Williamson, William S. (1981), B.S., United States Naval Academy; M.S., University of Southern California; M.A., D.P.A., Nova University; Adjunct Professor of Government and Public Administration.

Wilson, Louise (1988), B.A., Indiana University; Lecturer of Performing Arts.

Wilson, William (1990), B.F.A., Pratt Institute; M.F.A., The American University; Professorial Lecturer of Art.

Wine, Blanche (1988), B.S., University of South Carolina; M.A., The American University; Lecturer of Education.

Wingter, Rex (1990), B.A., Boston University; M.A., University of Denver; J.D., Antioch School of Law; Professorial Lecturer of Law.

Winnor, Edward G. (1982), A.B., M.A., The Catholic University of America; Professorial Lecturer of Education.

Wittenben, Kathryn (1990), B.A., University of Iowa; M.A., The American University; Lecturer of International Service.

Wolfe, Mark (1990), B.S., Rochester University; Professorial Lecturer of Communication.

Woloh III, John H. (1989), B.S., University of Maryland; Lecturer of Health and Fitness.

Wolvyn, Andrew D. (1977), B.A., M.A., University of Nebraska; Ph.D., Purdue University; Adjunct Professor of Communication.

Wong, Shelley (1991), B.A., M.A., University of California; Ed.D. Columbia University; Professorial Lecturer of Language and Foreign Studies.

Wright, Glendal E. (1987), B.S., Southwest Missouri State University; M.P.A., Maxwell School, Syracuse University; M.B.A., New York Institute of Technology; Professorial Lecturer of Government and Public Administration.

Xu, Guo Hong (1987), B.A., East China Normal University; M.A., The American University; Lecturer of Language and Foreign Studies.

Yanagida, Joy (1991), Lecturer of Law.

Yanero, Susan P. (1984), B.A., Fairmont State College; M.F.A., The American University; Professorial Lecturer of Art.

Yannas, Prodromos N. (1986), B.A., The College of Wooster; M.A., Miami University; Professorial Lecturer of International Service.

Yeebek, W. Robert, Jr. (1979), B.S., University of Maryland; Professorial Lecturer of Physics.

Zaelke, Durwood (1988), B.A., University of California, Los Angeles; J.D., Duke University; Professorial Lecturer of Law.

Zerabruk, Abera (1990), LL.B., Addis Ababa University; Professorial Lecturer of Economics.

Zhang, Samuel (1988), B.A., Zhongshan University; LL.M., University of Michigan; Professorial Lecturer on Law.

Zhao, Michael (1988), B.A., Xi'an Foreign Languages University; M.Ed., Bowling Green State University; Lecturer of Language and Foreign Studies.

Zlemke, Linda L. (1984), B.S., West Chester State College; Lecturer of Health and Fitness.

Zook, Bernard C. (1988), B.S., D.V.M., Colorado State University; Adjunct Professor of Biology.

1990-1991 Research Faculty

The faculty list below covers the 1990-1991 academic year only.

Alexander, Benjamin H. (1985), B.A., University of Cincinnati; M.S., Bradley University; Ph.D., Georgetown University; Research Professor of Chemistry.

Arnold, Raymond G. (1972), B.A., Alaska Methodist University; M.A., Ph.D., Boston University; Research Professor of Physics.

Bay, Zoltan Lajos (1986), Ph.D., University of Budapest; Research Professor of Physics.

Beveridge, Charles Elliot (1986), A.B., Harvard College; M.A., Ph.D., University of Wisconsin; Research Professor of History.

Biderman, Albert (1986), A.B., New York University; M.A., Ph.D., University of Chicago; Research Professor of Justice.

Boated, Peter (1988), B.S., Ph.D., Massachusetts Institute of Technology; Research Associate Professor of Physics.

Cooper, Caroline (1990), B.A., Smith College; M.A., Howard University; J.D., The American University; Research Assistant Professor of Justice, Law and Society.

Denbo, Sheryl (1981), B.S., University of Wisconsin; M.A., New School for Social Research; Ph.D., Rutgers State University; Research Associate Professor of Education.

Dent, Richard (1988), B.A., University of Maryland; Ph.D., The American University; Research Associate Professor of Anthropology.

Hughes, Lavelma (1988), B.S., University of Minnesota; M.S., Cornell University; Ph.D., Cornell University; Research Professor of Chemistry.

Iebell, Horace S. (1968), B.S., M.S., University of Denver; University of Maryland; Research Professor of Chemistry.

Kutina, Jan (1980), Ph.D., Magister of Pharmacy, R.N.Dr. (Rerum Naturalium Doctor), C.Sc. (Candidate of Sciences), Charles University, Prague; Research Professor of Chemistry.

Maday, Charles Bela (1982), Ph.D., Pazmany P. University, Hungary; Research Professor of Anthropology.

Mantel, Nathan (1952), B.S., City College of New York; M.A., The American University; Research Professor of Mathematics, Statistics, and Computer Science.

Mendelson, Johanna (1986), B.A., Queens College; M.I.A., Columbia School of International Affairs; Ph.D., Washington University; Research Assistant Professor of International Service.

Rock, Stephen (1976), A.B., Columbia University; Ph.D., University of California, Berkeley; Research Professor of Physics.

Schaeffer, Marc (1990), B.A., University of Texas; Ph.D., University of the Health Sciences, MD; Research Assistant Professor of Health and Fitness.

Simon, Nancy (1990), B.S., M.S., Ph.D., The American University; Research Assistant Professor of Chemistry.

Szalata, Zenon (1988), B.S., University of Hartford; Ph.D., University of Massachusetts, Amherst; Research Assistant Professor of Physics.

Trotter, Joseph (1990), B.S.F.S., Georgetown University; J.D., The American University; Research Assistant Professor of Justice, Law and Society.

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American Studies Program	Hunt Bldg	B4		side entrance					
Anderson Hall Computer Complex	Anderson Hall, lower level	C2	Library, Bender	Border Library					
Anesthesiology, Dept. of	Hunt Bldg	B4	Literature, Dept. of	Gray Bldg.					
Armour's	Butler Pavilion Promenade	C3	Mail Boxes Etc. USA	Butler Pavilion Promenade					
Art, Dept. of	Watkins Art Bldg	D1	Mathematics and Statistics, Dept. of	Clark Bldg.					
Art Gallery	Watkins Art Bldg	D1	Media Relations	Constitution Bldg.					
Arts and Sciences, College of	Gray Bldg	B2	Minority Affairs	Butler Pavilion, floor 4					
Bank	Butler Pavilion Promenade	C3	Parking and Traffic	Rockwood Bldg.					
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Bookstore (Campus Store)	Butler Pavilion, floors 2 & 3	C3	Philosophy and Religion, Dept. of	McCabe Bldg.					
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Communication, School of	Mary Graydon Center	C3	Psychological and Learning Services, Center for	Mary Graydon Center					
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Copy Center (Kinko's)	Butler Pavilion Promenade	C3	Research, Grants, and Contracts, Office of	Anderson Hall, lower level					
Development and Planning, Vice President for	Constitution Bldg	D6							
Development Office	Constitution Bldg	D6	Residence Halls						
Dining Services	Mary Graydon Center	C3	Anderson	C2	Congressional	D6	Leonard	D4	Nebraska
Dry Cleaner	Butler Pavilion Promenade	C3	Capital	D6	Federal	D6	Latta	C2	
Eagle	Mary Graydon Center	C3	Centennial	D2	Hughes	C4	McDowell	D4	
Eagle's Nest	Butler Pavilion Promenade	C3	Residential Life, Office of						
Economics, Dept. of	Roper Bldg	B2	Security						
Education, School of	McKinley Bldg	C3	Shuttle Service						
Employment Services	Spurs Center annex	D3	Sociology, Dept. of						
English Language Institute	McKinley Bldg	C3	Spots and Recreation						
Finance and Treasury, Vice President for	Howard Hall, lower level	D4	Student Accounts						
Financial Aid, Office of Admissions and	Hamilton Bldg	C1	Student Activists						
Government, Dept. of	Ward Circle Bldg	B4	Student Government						
Graduate Affairs	Anderson Hall, lower level	C2	Student Life, Division of (administrative offices)						
Hairdresser (Nouvelle Wave)	Butler Pavilion Promenade	C3	Students, Dean of						
Health and Fitness, Dept. of	Nebraska Hall, lower level	B5	Theatre						
Health Center	Nebraska Hall	B5	Travel Office (Omaha)						
History, Dept. of	McCabe Bldg	B2	University Programs, Vice Provost for						
Housing Management	McDowell Hall	D4	University Programs Advancement Center						
Information Center	Mary Graydon Center	C3	University Publications and Printing Office						
International/Intercultural Student Services	Butler Pavilion, floor 4	C3	University Relations						
International Residence Hall	Howard Hall	D4	WAMU-FM, WVVA-AM						
International Service Annex, School of	Annex I	C3	Washington Semester and World Capitals Programs						
International Service, School of	SIS Bldg	B3	Wachler Theatre						
Jewish Studies Program	Gray Bldg	B2	Women's Studies Program						
Justice, Law, and Society, Dept. of	Ward Circle Bldg	B4							
Kogod College of Business Administration	Buttelle-Tompkins Bldg	C4							
Languages and Foreign Studies, Dept. of	Asbury Bldg	D2	Off Campus						
			Clintonsburg, Maryland						
			2725 10th St., NW						



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